



March 12, 2013



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

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Amarillo, Texas 79107  
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Fax 806.467.0622

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7700 North Hudson Ave  
Suite 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

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

Subject: **Remediation and Closure Report**  
Devon Energy Corporation  
Snapping 10 Federal No. 1H  
**30-015-37899 2RP-1975**

Dear Mr. Bratcher,

Devon Energy Corporation (Devon) had contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

### Incident

The release occurred on September 29, 2013 at 3:00 a.m.

### Background Information

The Snapping 10 Federal No. 1 is located approximately sixty (60) miles Southeast of Carlsbad, New Mexico. The legal location for this site is Unit Letter B of Section 10, Township 23S, Range 31E in Eddy County, New Mexico. More specifically the Latitude and Longitude for the release are 32.063922 North and -103.763906 West. A site plan is presented in Appendix I.

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 Tonuco loamy fine sand with 0 to 3 percent slopes (eroded). This soil type has a restrictive petrocalcic layer at 6 to 20 inches below ground surface (bgs). Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to Middle Pleistocene in age and is comprised of eolian sands. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 292-feet bgs, according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

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

## Incident Description

A flowline leaked causing a release of 10bbls of crude oil. The flowline was repaired and put back into service. No fluid was recovered. Talon personnel mobilized on October 15, 2013 to conduct a site assessment and perform initial sampling activities. Talon personnel mobilized again on October 23, 2013 to further vertically delineate the site utilizing a hand auger. Refusal was encountered (caliche) at a depth of 2-feet bgs which prevented any further vertical delineation by hand. A summary of the referenced sampling activities is provided below.

## Initial 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	DRO
S-1	0	66.0	ND	982	10200
S-1	1	996	--	11800	14200
S-1 refusal	2	23.7	--	177	494
S-2	0	1.92	ND	11.6	63.5
S-3	0	66.2	ND	751	7860
S-3	1	1380	--	15300	16300
S-3 refusal	2	396	--	3600	4670
S-4	0	116	64	1950	22800
S-4	1	784	--	8600	9570
S-4 refusal	2	520	--	7210	8910
S-5	0	16.7	ND	188	5750
S-5	1	ND	--	ND	ND
S-5 refusal	2	ND	--	ND	ND
S-6	0	158	368	2120	12500
S-6	1	11.6	--	152	414
S-6 refusal	2	12.3	--	133	410
S-7	0	1.13	ND	32.2	756
S-7	1	302	--	2800	3580
S-7 refusal	2	25.6	--	379	932

## Confirmation Laboratory Results

February 5, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)	
				GRO	DRO
S-3	2.5	0.853	--	<10	46
S-4	2.5	0.789	--	<10	15.8

(ND) Analyte not detected

(--) Analyte not tested

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

## Remedial Actions Taken

Talon personnel mobilized to the site to begin excavation of the impacted area in accordance with the approved work plan and the additional stipulations as directed by the NMOCD and BLM. The impacted areas in the vicinity of sample locations S-5 and S-6 were excavated to a depth of 1-foot bgs. The impacted areas in the vicinity of sample locations S-1 and S-7 were excavated to a depth of 2-feet bgs. The impacted areas in the vicinity of sample locations S-3 and S-4 were excavated to a depth of 2.5-feet bgs.

On January 29, 2014 Talon personnel mobilized to the site to collect confirmation soil samples to insure that all of the impacted soil was removed. Upon approval from NMOCD, the excavated area was backfilled back to grade using new material transported from a local borrow pit and was contoured to match the surrounding location. The area was seeded on February 11, 2014 using BLM seed mix #2. The seeding label is attached.

## Closure

On behalf of Devon Energy Corporation, we respectfully request that no further actions be required and that closure with respect to this release be granted.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE



Kimberly M. Wilson  
Project Manager

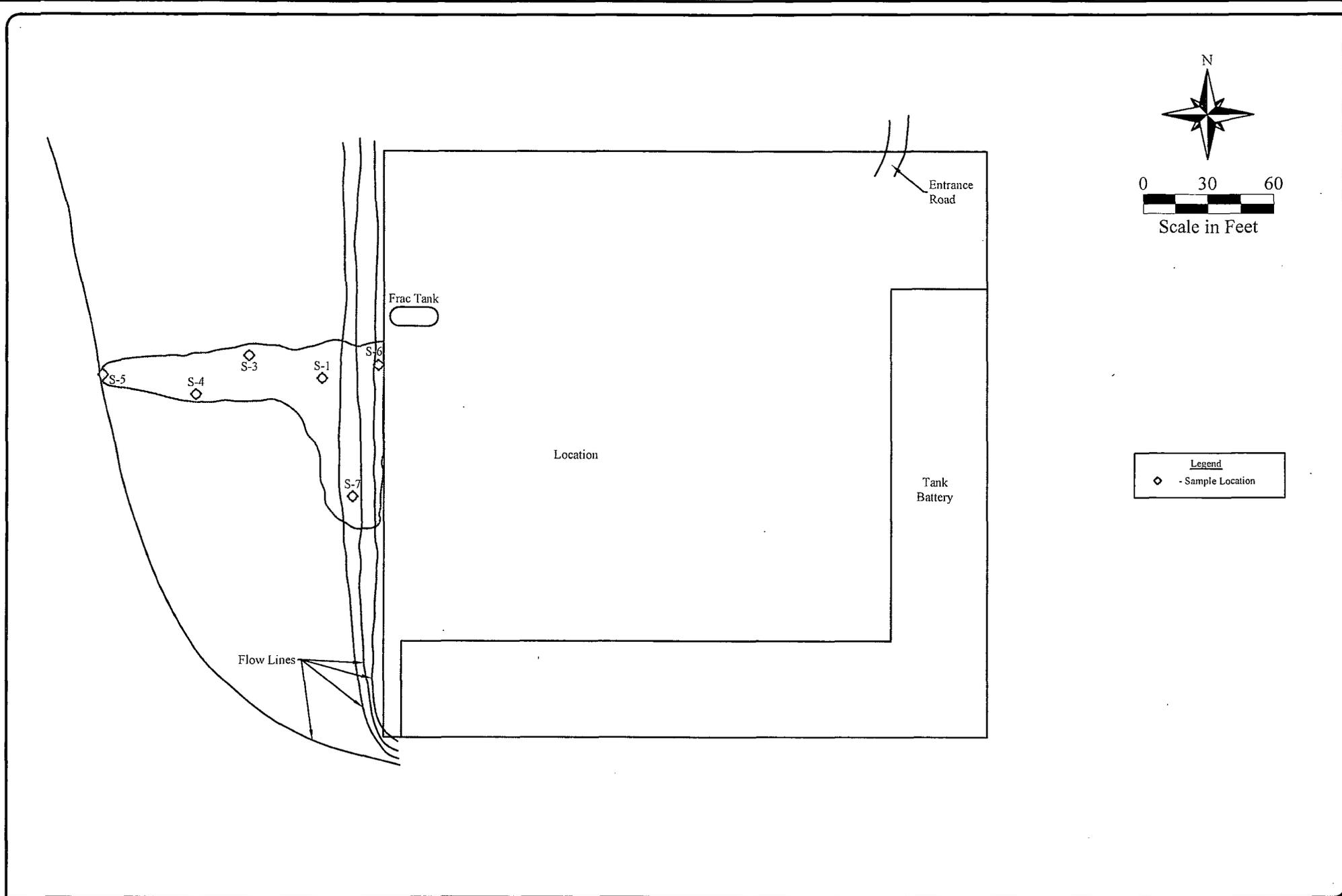


David J. Adkins  
District Manager

CC.

Mr. Jeffery Robertson  
**Bureau of Land Management**  
620 E Green St.  
Carlsbad, NM 88210

**APPENDIX I**  
**SITE MAP**



Date: 10/31/2013

Scale: 1" = 60'

Drawn By: TJS

Snapping 10 Fed #1  
Devon Energy Corporation  
Eddy County, New Mexico  
Figure 1 - Site Plan

**APPENDIX II**  
**GROUNDWATER DATA**



# 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 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02090			ED	4	4	01	26S	31E		620329	3548533*	3346	350	335	15
C 03554 POD1	C		ED	2	1	4	01	26S	31E	620547	3549148	3754	630	300	330
C 01777	C		ED				08	26S	31E	613245	3547409*	3858	325	300	25
C 02248			ED	1	2	3	08	26S	31E	612942	3547316*	4167	300	292	8
C 02249			ED	1	2	3	08	26S	31E	612942	3547316*	4167	300	292	8

Average Depth to Water: **303 feet**  
 Minimum Depth: **292 feet**  
 Maximum Depth: **335 feet**

**Record Count:** 5

**Basin/County Search:**

**County:** Eddy

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 617094

**Northing (Y):** 3547676

**Radius:** 5000

\*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.

**APPENDIX III**  
**LABORATORY RESULTS**



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

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October 22, 2013

DAVID ADKINS  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: SNAPPING #10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/15/13 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized initial "C".

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 / SURFACE (H302498-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>2.13</b>	1.00	10/18/2013	ND	1.78	89.1	2.00	0.150	
<b>Toluene*</b>	<b>16.4</b>	1.00	10/18/2013	ND	1.90	95.2	2.00	2.95	
<b>Ethylbenzene*</b>	<b>5.32</b>	1.00	10/18/2013	ND	1.94	96.8	2.00	3.35	
<b>Total Xylenes*</b>	<b>42.2</b>	3.00	10/18/2013	ND	5.87	97.9	6.00	6.19	
<b>Total BTEX</b>	<b>66.1</b>	6.00	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 89.4-126

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	10/16/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>982</b>	10.0	10/16/2013	ND	191	95.3	200	2.37		
<b>DRO &gt;C10-C28</b>	<b>10200</b>	10.0	10/16/2013	ND	191	95.5	200	3.62		

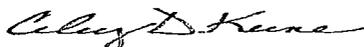
Surrogate: 1-Chlorooctane 169 % 65.2-140

Surrogate: 1-Chlorooctadecane 322 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 / SURFACE (H302498-02)**

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	10/18/2013	ND	1.78	89.1	2.00	0.150		
Toluene*	<b>0.200</b>	0.050	10/18/2013	ND	1.90	95.2	2.00	2.95		
Ethylbenzene*	<b>0.182</b>	0.050	10/18/2013	ND	1.94	96.8	2.00	3.35		
Total Xylenes*	<b>1.53</b>	0.150	10/18/2013	ND	5.87	97.9	6.00	6.19		
Total BTEX	<b>1.92</b>	0.300	10/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-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	10/16/2013	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	<b>11.6</b>	10.0	10/17/2013	ND	191	95.3	200	2.37		
DRO >C10-C28	<b>63.5</b>	10.0	10/17/2013	ND	191	95.5	200	3.62		

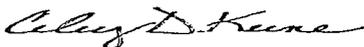
Surrogate: 1-Chlorooctane 97.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 / SURFACE (H302498-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.80	1.00	10/18/2013	ND	1.78	89.1	2.00	0.150		
Toluene*	13.5	1.00	10/18/2013	ND	1.90	95.2	2.00	2.95		
Ethylbenzene*	5.58	1.00	10/18/2013	ND	1.94	96.8	2.00	3.35		
Total Xylenes*	45.4	3.00	10/18/2013	ND	5.87	97.9	6.00	6.19		
Total BTEX	66.2	6.00	10/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 89.4-126

Chloride, SM4500Cl-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	10/16/2013	ND	416	104	400	0.00		

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	751	10.0	10/16/2013	ND	191	95.3	200	2.37			
DRO >C10-C28	7860	10.0	10/16/2013	ND	191	95.5	200	3.62			

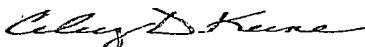
Surrogate: 1-Chlorooctane 181 % 65.2-140

Surrogate: 1-Chlorooctadecane 225 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 / SURFACE (H302498-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	10/18/2013	ND	1.78	89.1	2.00	0.150		
Toluene*	24.0	5.00	10/18/2013	ND	1.90	95.2	2.00	2.95		
Ethylbenzene*	10.5	5.00	10/18/2013	ND	1.94	96.8	2.00	3.35		
Total Xylenes*	81.6	15.0	10/18/2013	ND	5.87	97.9	6.00	6.19		
Total BTEX	116	30.0	10/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/16/2013	ND	416	104	400	0.00		

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	1950	100	10/21/2013	ND	191	95.3	200	2.37			
DRO >C10-C28	22800	100	10/21/2013	ND	191	95.5	200	3.62			

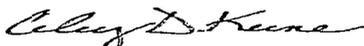
Surrogate: 1-Chlorooctane 352 % 65.2-140

Surrogate: 1-Chlorooctadecane 651 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-5 / SURFACE (H302498-05)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	10/18/2013	ND	1.78	89.1	2.00	0.150		
Toluene*	<b>1.85</b>	0.200	10/18/2013	ND	1.90	95.2	2.00	2.95		
Ethylbenzene*	<b>1.68</b>	0.200	10/18/2013	ND	1.94	96.8	2.00	3.35		
Total Xylenes*	<b>13.2</b>	0.600	10/18/2013	ND	5.87	97.9	6.00	6.19		
<b>Total BTEX</b>	<b>16.7</b>	1.20	10/18/2013	ND						

*Surrogate: 4-Bromofluorobenzene (PII)*      135 %      89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>188</b>	10.0	10/16/2013	ND	191	95.3	200	2.37		
<b>DRO &gt;C10-C28</b>	<b>5750</b>	10.0	10/16/2013	ND	191	95.5	200	3.62		

*Surrogate: 1-Chlorooctane*      133 %      65.2-140

*Surrogate: 1-Chlorooctadecane*      216 %      63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-6 / SURFACE (H302498-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>4.80</b>	2.00	10/18/2013	ND	1.78	89.1	2.00	0.150	
<b>Toluene*</b>	<b>40.2</b>	2.00	10/18/2013	ND	1.90	95.2	2.00	2.95	
<b>Ethylbenzene*</b>	<b>12.5</b>	2.00	10/18/2013	ND	1.94	96.8	2.00	3.35	
<b>Total Xylenes*</b>	<b>100</b>	6.00	10/18/2013	ND	5.87	97.9	6.00	6.19	
<b>Total BTEX</b>	<b>158</b>	12.0	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>368</b>	16.0	10/16/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>2120</b>	100	10/21/2013	ND	191	95.3	200	2.37		
<b>DRO &gt;C10-C28</b>	<b>12500</b>	100	10/21/2013	ND	191	95.5	200	3.62		

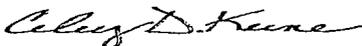
Surrogate: 1-Chlorooctane 278 % 65.2-140

Surrogate: 1-Chlorooctadecane 372 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

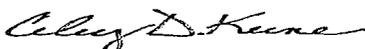
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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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Celestine 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

Company Name: <u>Talon LLC</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>												
Project Manager: <u>D. Halkias</u>		P.O. #:		<div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">1516T</div> <div style="font-size: 2em; font-weight: bold; margin-bottom: 10px;">TPT</div> <div style="font-size: 2em; font-weight: bold;">Chlorides</div>												
Address: <u>408 W Texas Ave.</u>		Company: <u>Talon</u>														
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:														
Phone #:                      Fax #:		Address:														
Project #: <u>Snapping</u> Project Owner: <u>Dorman</u>		City:														
Project Name: <u>Ross Ranch #10 Fed 2 *</u>		State:      Zip:														
Project Location:		Phone #:														
Sampler Name: <u>G. Baeza</u>		Fax #:														
FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	# CONTAINERS	GIRAB OR (COMP.)	MATRIX				PRESERV.		SAMPLING						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME		
<u>H302498</u>																
	<u>S-2 / Surface</u>	<u>/</u>											<u>10/15</u>	<u>9:30</u>	<u>/</u>	<u>/</u>
	<u>S-2 / Surface</u>	<u>/</u>												<u>9:35</u>	<u>/</u>	<u>/</u>
	<u>S-3 / Surface</u>	<u>/</u>												<u>9:38</u>	<u>/</u>	<u>/</u>
	<u>S-4 / Surface</u>	<u>/</u>												<u>9:40</u>	<u>/</u>	<u>/</u>
	<u>S-5 / Surface</u>	<u>/</u>												<u>9:42</u>	<u>/</u>	<u>/</u>
	<u>S-6 / Surface</u>	<u>/</u>												<u>9:53</u>	<u>/</u>	<u>/</u>

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Relinquished By: <u>[Signature]</u>	Date: <u>10/15/13</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>1:25</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>[Signature]</u>	Date: <u>10/15/13</u>	Received By: <u>[Signature]</u>	REMARKS: <u>* Project name changed as per David. 10/21/13 de</u>	
	Time: <u>1:25</u>			

Delivered By: (Circle One)	Sample Condition	Checked By:
Sampler - UPS - Bus - Other: <u>2.4°C</u>	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	(Initials) <u>[Signature]</u>

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

October 29, 2013

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SNAPPING #10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/23/13 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 1' (H302569-01)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>65.2</b>	5.00	10/24/2013	ND	2.05	103	2.00	0.398	
<b>Toluene*</b>	<b>342</b>	5.00	10/24/2013	ND	2.14	107	2.00	0.0304	
<b>Ethylbenzene*</b>	<b>72.3</b>	5.00	10/24/2013	ND	2.17	108	2.00	0.263	
<b>Total Xylenes*</b>	<b>516</b>	15.0	10/24/2013	ND	6.55	109	6.00	1.57	
<b>Total BTEX</b>	<b>996</b>	30.0	10/24/2013	ND					

*Surrogate: 4-Bromofluorobenzene (PIE) 137 % 89.4-126*

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>11800</b>	100	10/24/2013	ND	192	95.8	200	2.53	
<b>DRO &gt;C10-C28</b>	<b>14200</b>	100	10/24/2013	ND	189	94.6	200	3.08	

*Surrogate: 1-Chlorooctane 418 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 236 % 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 2' (H302569-02)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.218</b>	0.050	10/24/2013	ND	2.05	103	2.00	0.398	
<b>Toluene*</b>	<b>5.15</b>	0.050	10/24/2013	ND	2.14	107	2.00	0.0304	
<b>Ethylbenzene*</b>	<b>2.22</b>	0.050	10/24/2013	ND	2.17	108	2.00	0.263	
<b>Total Xylenes*</b>	<b>16.1</b>	0.150	10/24/2013	ND	6.55	109	6.00	1.57	
<b>Total BTEX</b>	<b>23.7</b>	0.300	10/24/2013	ND					

*Surrogate: 4-Bromofluorobenzene (PIL) 249 % 89.4-126*

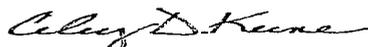
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>177</b>	10.0	10/24/2013	ND	192	95.8	200	2.53	
<b>DRO &gt;C10-C28</b>	<b>494</b>	10.0	10/24/2013	ND	189	94.6	200	3.08	

*Surrogate: 1-Chlorooctane 78.3 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 82.4 % 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 1' (H302569-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>149</b>	10.0	10/24/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>509</b>	10.0	10/24/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>83.0</b>	10.0	10/24/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>640</b>	30.0	10/24/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>1380</b>	60.0	10/24/2013	ND						

*Surrogate: 4-Bromofluorobenzene (PIE) 117 % 89.4-126*

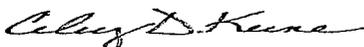
TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>15300</b>	100	10/24/2013	ND	192	95.8	200	2.53			
<b>DRO &gt;C10-C28</b>	<b>16300</b>	100	10/24/2013	ND	189	94.6	200	3.08			

*Surrogate: 1-Chlorooctane 473 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 349 % 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 2' (H302569-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>31.5</b>	5.00	10/24/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>140</b>	5.00	10/24/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>27.6</b>	5.00	10/24/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>198</b>	15.0	10/24/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>396</b>	30.0	10/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 117 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>3600</b>	10.0	10/24/2013	ND	192	95.8	200	2.53			
<b>DRO &gt;C10-C28</b>	<b>4670</b>	10.0	10/24/2013	ND	189	94.6	200	3.08			

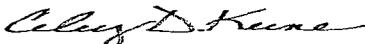
Surrogate: 1-Chlorooctane 187 % 65.2-140

Surrogate: 1-Chlorooctadecane 148 % 63.6-154

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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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 1' (H302569-05)**

BTEX 80218		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>12.3</b>	10.0	10/24/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>301</b>	10.0	10/24/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>55.6</b>	10.0	10/24/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>415</b>	30.0	10/24/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>784</b>	60.0	10/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>8600</b>	10.0	10/24/2013	ND	192	95.8	200	2.53			
<b>DRO &gt;C10-C28</b>	<b>9570</b>	10.0	10/24/2013	ND	189	94.6	200	3.08			

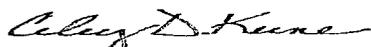
Surrogate: 1-Chlorooctane 291 % 65.2-140

Surrogate: 1-Chlorooctadecane 155 % 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 2' (H302569-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>12.7</b>	5.00	10/28/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>176</b>	5.00	10/28/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>38.9</b>	5.00	10/28/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>292</b>	15.0	10/28/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>520</b>	30.0	10/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 116 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>7210</b>	10.0	10/24/2013	ND	192	95.8	200	2.53			
<b>DRO &gt;C10-C28</b>	<b>8910</b>	10.0	10/24/2013	ND	189	94.6	200	3.08			

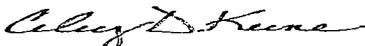
Surrogate: 1-Chlorooctane 285 % 65.2-140

Surrogate: 1-Chlorooctadecane 205 % 63.6-154

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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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-5 1' (H302569-07)**

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	10/25/2013	ND	1.89	94.4	2.00	0.364		
Toluene*	<0.050	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484		
Ethylbenzene*	<0.050	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827		
Total BTEX	<0.300	0.300	10/25/2013	ND						

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

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	10/25/2013	ND	185	92.3	200	0.942		
DRO >C10-C28	<10.0	10.0	10/25/2013	ND	173	86.6	200	1.03		

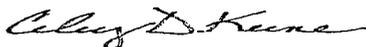
Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

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Celestine 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-5 2' (H302569-08)**

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	10/25/2013	ND	1.89	94.4	2.00	0.364		
Toluene*	<0.050	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484		
Ethylbenzene*	<0.050	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827		
Total BTEX	<0.300	0.300	10/25/2013	ND						

*Surrogate: 4-Bromofluorobenzene (PII) 104 % 89.4-126*

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	10/25/2013	ND	185	92.3	200	0.942		
DRO >C10-C28	<10.0	10.0	10/25/2013	ND	173	86.6	200	1.03		

*Surrogate: 1-Chlorooctane 82.0 % 65.2-140*
*Surrogate: 1-Chlorooctadecane 86.8 % 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-6 1' (H302569-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.365</b>	0.200	10/25/2013	ND	1.89	94.4	2.00	0.364	
<b>Toluene*</b>	<b>2.63</b>	0.200	10/25/2013	ND	1.94	97.1	2.00	0.484	
<b>Ethylbenzene*</b>	<b>1.01</b>	0.200	10/25/2013	ND	1.95	97.7	2.00	0.395	
<b>Total Xylenes*</b>	<b>7.61</b>	0.600	10/25/2013	ND	5.87	97.8	6.00	0.0827	
<b>Total BTEX</b>	<b>11.6</b>	1.20	10/25/2013	ND					

*Surrogate: 4-Bromofluorobenzene (PIL) 119 % 89.4-126*

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>152</b>	10.0	10/25/2013	ND	185	92.3	200	0.942	
<b>DRO &gt;C10-C28</b>	<b>414</b>	10.0	10/25/2013	ND	173	86.6	200	1.03	

*Surrogate: 1-Chlorooctane 96.9 % 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-6 2' (H302569-10)**

BTEX 8021B	mg/kg	Analyzed By: MS				S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.184</b>	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364	
<b>Toluene*</b>	<b>2.35</b>	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484	
<b>Ethylbenzene*</b>	<b>1.13</b>	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395	
<b>Total Xylenes*</b>	<b>8.64</b>	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827	
<b>Total BTEX</b>	<b>12.3</b>	0.300	10/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 178 % 89.4-126

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>133</b>	10.0	10/25/2013	ND	185	92.3	200	0.942	
<b>DRO &gt;C10-C28</b>	<b>410</b>	10.0	10/25/2013	ND	173	86.6	200	1.03	

Surrogate: 1-Chlorooctane 96.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-7 0' (H302569-11)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364		
Toluene*	<b>0.103</b>	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484		
Ethylbenzene*	<b>0.116</b>	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395		
Total Xylenes*	<b>0.910</b>	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827		
Total BTEX	<b>1.13</b>	0.300	10/25/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 129 % 89.4-126

Chloride, SM4500Cl-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	10/29/2013	ND	400	100	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	<b>32.2</b>	10.0	10/25/2013	ND	185	92.3	200	0.942		
DRO >C10-C28	<b>756</b>	10.0	10/25/2013	ND	173	86.6	200	1.03		

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-7 1' (H302569-12)**

BTEX 8021B	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>9.63</b>	1.00	10/28/2013	ND	1.89	94.4	2.00	0.364		
<b>Toluene*</b>	<b>97.2</b>	1.00	10/28/2013	ND	1.94	97.1	2.00	0.484		
<b>Ethylbenzene*</b>	<b>23.4</b>	1.00	10/28/2013	ND	1.95	97.7	2.00	0.395		
<b>Total Xylenes*</b>	<b>172</b>	3.00	10/28/2013	ND	5.87	97.8	6.00	0.0827		
<b>Total BTEX</b>	<b>302</b>	6.00	10/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 172 % 89.4-126

TPH 8015M	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>2800</b>	10.0	10/25/2013	ND	185	92.3	200	0.942		
<b>DRO &gt;C10-C28</b>	<b>3580</b>	10.0	10/25/2013	ND	173	86.6	200	1.03		

Surrogate: 1-Chlorooctane 165 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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Celest 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:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-7 2' (H302569-13)**

BTEX 8021B	mg/kg	Analyzed By: MS					S-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.063</b>	0.050	10/28/2013	ND	1.89	94.4	2.00	0.364		
<b>Toluene*</b>	<b>3.62</b>	0.050	10/28/2013	ND	1.94	97.1	2.00	0.484		
<b>Ethylbenzene*</b>	<b>2.50</b>	0.050	10/28/2013	ND	1.95	97.7	2.00	0.395		
<b>Total Xylenes*</b>	<b>19.4</b>	0.150	10/28/2013	ND	5.87	97.8	6.00	0.0827		
<b>Total BTEX</b>	<b>25.6</b>	0.300	10/28/2013	ND						

*Surrogate: 4-Bromofluorobenzene (PIL)*      256 %      89.4-126

TPH 8015M	mg/kg	Analyzed By: MS								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>379</b>	10.0	10/25/2013	ND	185	92.3	200	0.942		
<b>DRO &gt;C10-C28</b>	<b>932</b>	10.0	10/25/2013	ND	173	86.6	200	1.03		

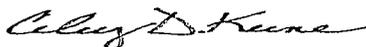
*Surrogate: 1-Chlorooctane*      109 %      65.2-140

*Surrogate: 1-Chlorooctadecane*      101 %      63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

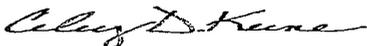
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED 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

Company Name: <b>Talon/LPE</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
Project Manager: <b>K. Wilson</b>		P.O. #:			
Address: <b>408 W. Texas Ave</b>		Company: <b>Talon/LPE</b>			
City: <b>Artesia</b> State: <b>NM</b> Zip: <b>88210</b>		Attn:			
Phone #: <b>575-746-8768</b> Fax #: <b>575-746-8905</b>		Address:			
Project #: Project Owner: <b>Dakon</b>		City:			
Project Name: <b>Snapping 10 Fed #1</b>		State: Zip:			
Project Location:		Phone #:			
Sampler Name: <b>S. Hitchcock</b>		Fax #:			

FOR LAB USE ONLY		(G)RAB OR (C)OMP # CONTAINERS	MATRIX					PRESERV.			SAMPLING		TPH	BTEX
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE		
<b>H302560</b>														
1	6-11'	5			/				/		10/23/13	11:23	/	/
2	6-12'	5			/				/			11:25	/	/
3	6-31'	5			/				/			11:31	/	/
4	6-32'	5			/				/			11:36	/	/
5	6-41'	5			/				/			11:40	/	/
6	6-42'	5			/				/			11:45	/	/
7	6-51'	5			/				/			11:52	/	/
8	6-52'	5			/				/			11:55	/	/
9	6-61'	5			/				/			12:12	/	/
10	6-62'	5			/				/			12:15	/	/

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Relinquished By: <i>[Signature]</i>	Date: <b>10/23/13</b>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <i>[Signature]</i>	Date: <b>10:35</b>	Received By: <i>[Signature]</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <i>[Signature]</i>	REMARKS:	





February 05, 2014

DAVID ADKINS  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: SNAPPING #10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/29/14 15:07.

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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene  
Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/29/2014	Sampling Date:	01/29/2014
Reported:	02/05/2014	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	700794.075.01	Sample Received By:	Kathy Perez
Project Location:	H-S10-T26S-R31E		

**Sample ID: S-3 2.5' (H400289-01)**

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	02/03/2014	ND	2.13	107	2.00	1.01		
Toluene*	<b>0.112</b>	0.050	02/03/2014	ND	2.09	105	2.00	0.344		
Ethylbenzene*	<b>0.067</b>	0.050	02/03/2014	ND	2.10	105	2.00	0.0620		
Total Xylenes*	<b>0.674</b>	0.150	02/03/2014	ND	6.12	102	6.00	0.0129		
<b>Total BTEX</b>	<b>0.853</b>	0.300	02/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 89.4-126

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	01/31/2014	ND	218	109	200	10.7		
<b>DRO &gt;C10-C28</b>	<b>46.0</b>	10.0	01/31/2014	ND	225	112	200	14.2		

Surrogate: 1-Chlorooctane 80.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 84.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	01/29/2014	Sampling Date:	01/29/2014
Reported:	02/05/2014	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	700794.075.01	Sample Received By:	Kathy Perez
Project Location:	H-S10-T26S-R31E		

**Sample ID: S-4 2.5' (H400289-02)**

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	02/03/2014	ND	2.13	107	2.00	1.01		
<b>Toluene*</b>	<b>0.156</b>	0.050	02/03/2014	ND	2.09	105	2.00	0.344		
<b>Ethylbenzene*</b>	<b>0.068</b>	0.050	02/03/2014	ND	2.10	105	2.00	0.0620		
<b>Total Xylenes*</b>	<b>0.566</b>	0.150	02/03/2014	ND	6.12	102	6.00	0.0129		
<b>Total BTEX</b>	<b>0.789</b>	0.300	02/03/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

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	01/31/2014	ND	218	109	200	10.7		
<b>DRO &gt;C10-C28</b>	<b>15.8</b>	10.0	01/31/2014	ND	225	112	200	14.2		

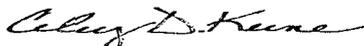
Surrogate: 1-Chlorooctane 75.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.8 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

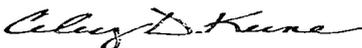
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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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

Company Name: <u>Talon/LPE</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																		
Project Manager: <u>K. Wilson</u>		P.O. #:																				
Address: <u>408 W. Texas Ave.</u>		Company: <u>Talon/LPE</u>																				
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																				
Phone #: <u>575-746-8768</u> Fax #: <u>575-746-8905</u>		Address:																				
Project #: <u>700794.075.01</u> Project Owner: <u>Devon</u>		City:																				
Project Name: <u>Shopping 10 Fed #1</u>		State: Zip:																				
Project Location: <u>H-510-T265-R31E</u>		Phone #:																				
Sampler Name: <u>S. Hitchcock</u>		Fax #:																				
FOR LAB USE ONLY				MATRIX			PRESERV.			SAMPLING												
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	TPH	BTX						
<u>H400289</u>																						
<u>1</u>	<u>S-3 2.5'</u>	<u>G</u>	<u>1</u>			<u>/</u>							<u>1-29-14</u>	<u>11:57</u>	<u>/</u>	<u>/</u>						
<u>2</u>	<u>S-4 2.5'</u>	<u>G</u>	<u>1</u>			<u>/</u>							<u>1-29-14</u>	<u>11:57</u>	<u>/</u>	<u>/</u>						

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: <u>[Signature]</u>	Date: <u>1/29/14</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>8:07</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other: <u>4.4°C</u>	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>KP</u>		

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

HR

**SEEDING LABEL**

Curtis & Curtis, Inc  
 4500 North Prince  
 Clovis, NM 88130  
 Phone: (575) 762-4759

Talon / LPE, LTD  
 1/2 Acre BLM #2, Broadcast Rate  
 1 1/2 Acre Bag @ 17.13 Bulk Pounds Each  
 Job: Devon Snapping 10-Fed #1  
 30-015-29605  
 H-10-26-31  
 700794075.01

2-11-14

Lot#: M-11971

Item	Origin	Purity	Germ	Dormant	Germ &	Test	Total PLS
					Dormant	Date	Pounds
Sand Dropseed VNS	Colorado	12.16%	22.00%	74.00%	96.00%	12/13	2.00
Little Bluestem Aldous	Nebraska	19.04%	54.00%	38.00%	92.00%	11/13	3.00
Coreopsis Plains	Oregon	14.07%	83.00%	0.00%	83.00%	11/13	2.00
Sideoats Grama Vaughn	Texas	19.25%	13.00%	78.00%	91.00%	09/13	3.00
Indian Ricegrass Paloma	Colorado	12.56%	3.00%	90.00%	93.00%	12/13	2.00
Other Crop:	0.00%	There Are 1 Bag For This Mix			Total Bulk Pounds: .17		
Weed Seed:	0.03%	This Bag Weighs 17.13 Bulk Pounds					
Inert Matter:	22.89%	Use This Bag For 1/2 Acres					

**FINAL 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

Form C-141  
Revised March 17, 1999

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report

Final Report

Name of Company Devon Energy	Contact Tracy Kidd
Address P. O. Box 250 Artesia, NM 88211	Telephone No. 575-513-0628
Facility Name: Snapping 10 Federal 1H	Facility Type Oil Well

Surface Owner	Mineral Owner	API #: 30-015-37899 2RP-1975
---------------	---------------	---------------------------------

**LOCATION OF RELEASE**

Unit/Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	10	26S	31E	330'	North	1980'	East	RODDY

**NATURE OF RELEASE**

Type of Release: Mix Fluids	Volume of Release: 10 bbls	Volume Recovered: 0 bbls
Source of Release: Poly line leak	Date and Hour of Occurrence: 9/29/13, 3:00 AM	Date and Hour of Discovery: 9/29/13, 3:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD/ Mike Bratcher & BLM/Jeffery Robertson	
By Whom? Aaron Kidd	Date and Hour: 10/1/13, 8:45 AM	
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

Describe Cause of Problem and Remedial Action Taken.\* A poly line leaked causing a release of 10 barrels of mixed fluids. No fluids were recovered. The line was isolated, replaced and put back into service.

Describe Area Affected and Cleanup Action Taken.\* Taron T.P.R. was contractor for the correction of this release. The impacted area from this release was excavated to a depth of 2.5-foot deep and analytical testing was completed. The excavation was backfilled to grade using new material, contoured to match the surrounding location and seeded on February 11, 2014 using BLM seed mix #2.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCDD 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 NMOCDD 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, NMOCDD 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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Veronica Tool	Approved by District Supervisor:	
Title: Admin Field Support	Approval Date:	Expiration Date:
Date: 3/3/2014 Phone: 575-748-9935	Conditions of Approval:	Attached <input type="checkbox"/>

\* Attach Additional Sheets if Necessary