

RECEIVED

By OCD District 1 at 9:21 am, Aug 21, 2015



August 13, 2015

APPROVED Conditional

By OCD District 1 at 9:22 am, Aug 21, 2015

Kellie Jones
NMOCD District I
1625 N. French Dr.
Hobbs, NM 88240

1. Please note the RP number will remain open until final closure.
2. Ensure BLM approval/concurrence.

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

Subject: **Remediation and Closure Report**
Devon Energy
Shinnery 14 Federal #5 SWD
API #: 30-025-30719 1RP-3720

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

Dear Ms. Jones:

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

Devon Energy has 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 Date

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

April 7, 2015

Background Information

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

The Shinnery 14 Federal #5 SWD is located approximately twenty (20) miles southeast of Loco Hills in Lea County, New Mexico. The legal location for this site is Section 14, Township 18 South, and Range 32 East. More specifically the latitude and longitude for the release are 32.7483048 North and -103.7305638 West. A site plan is presented in [Appendix I](#).

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

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Services, the soil in this area is made up of Ratliff - Wink fine sandy loam. Per the New Mexico Department of Geology and Mineral Resources, the local surface and shallow geology, Quaternary and Tertiary Age sedimentary deposits, is comprised of calcareous alluvium and calcareous eolian sands which includes silty soils under lain by sedimentary rock and hard caliche. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S26-T18S-R32E. The ground water in Section 26 appears to be dry at a depth of 700' below ground surface (bgs). The referenced groundwater data is presented in [Appendix II](#).

The ranking for this site is 0 based on the following:

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

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

Incident Description

On April 7, 2015 it was discovered that the swedge connection on the wellhead malfunctioned causing a release of 50 barrels of produced water on the location. The well was immediately shut-in, the wellhead repaired and brought back into service. A vac truck was called the location and recovered 40 barrels of fluid. The affected measured approximately 70-feet wide by 225-feet long around the wellhead staying on the pad. Laboratory results from the initial soil sampling event are summarized in the table below. See Appendix III.

April 24, 2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1'	--	1140	--	--
	2'	--	2120	--	--
	3'	--	2280	--	--
S-2	1'	--	832	--	--
	2'	--	944	--	--
	3'	--	2160	--	--
S-3	1'	--	5840	--	--
	2'	--	6400	--	--
	3'	--	7920	--	--
S-4	1'	--	5040	--	--
	2'	--	6160	--	--
	3'	--	4560	--	--
S-5	1'	--	800	--	--
	2'	--	1760	--	--
	3'	--	800	--	--
S-6	1'	--	3400	--	--
	2'	--	3640	--	--
	3'	--	2160	--	--
S-7	1'	--	3800	--	--
	2'	--	3520	--	--
	3'	--	3360	--	--

--Analyte Not Tested

(NMOCD approved no liner needed at sample locations S-1, S-2, S-6 and S-7 due to the being out in the middle of the location and setting a liner at these locations would not benefit any release of any fluids.)

Remedial Actions Taken

In accordance with the NMOCD and the BLM's approved work plan, the impacted area in the vicinity of sample locations S-1, S-2, S-6 and S-7 was excavated to a depth of 4-feet deep. The impacted area in the vicinity of S-5 was excavated to a depth of 2.5-feet deep.

The impacted area in the vicinity of sample locations S-3 and S-4 were excavated to the depth of 4-feet and a 20 mil liner was installed in the bottom of the excavation. New caliche was placed over the top of the liner, compacted and re-contoured to match the surrounding location.

All the contaminated soil was transported to Lea Land, LLC.

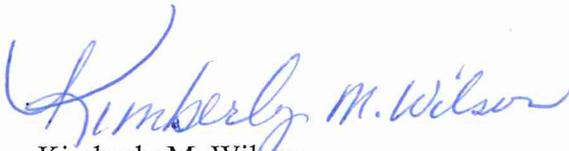
Closure

On behalf of Devon Energy, we respectfully request that no further actions be required and that closure with respect to these releases be granted. A Final C-141 is also attached. See Appendix IV.

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

Handwritten signature of Kimberly M. Wilson in blue ink.

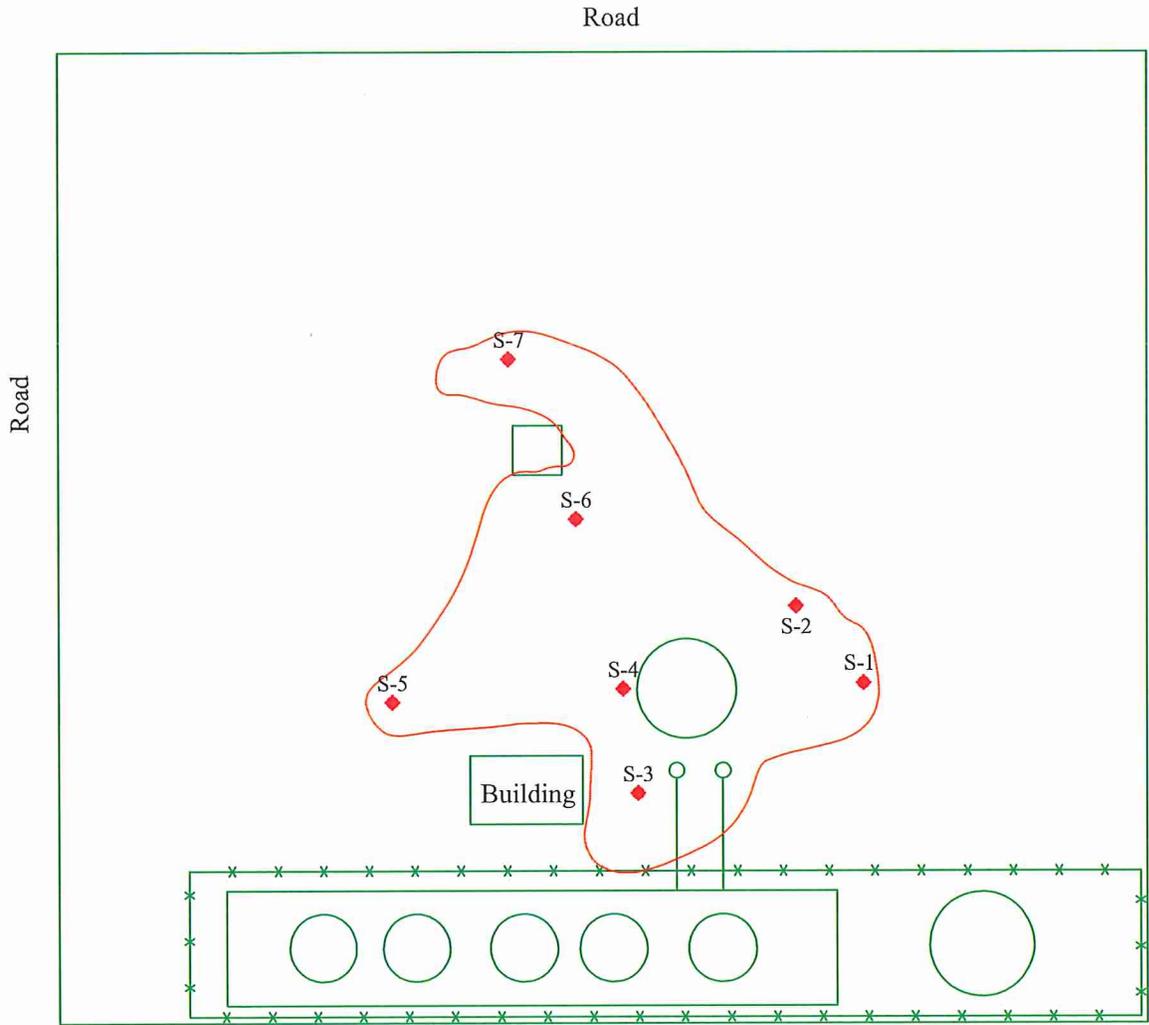
Kimberly M. Wilson
Project Manager

Handwritten signature of David J. Adkins in blue ink.

David J. Adkins
District Manager

APPENDIX I

SITE MAP



NTS
Scale in Feet

Legend
♦ - Sample Location



Date: 07/02/2015

Scale: NTS

Drawn By: TJS

Shinnery 14 Federal #5
Devon Energy Corporation
Lea 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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water Column
CP 00677			LE	1	1	26	18S	32E		617750	3621373*	3376	700	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 619016

Northing (Y): 3624503

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.

APPENDIX III
LABORATORY RESULTS



April 24, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SHINNERY 14-5 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/17/15 15:00.

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.

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:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 1' (H501019-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/21/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/21/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/21/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID 110 % 61-154)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1140	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 103 % 47.2-157
Surrogate: 1-Chlorooctadecane 100 % 52.1-176

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: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 2' (H501019-02)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/21/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/21/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/21/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 108 % 47.2-157
Surrogate: 1-Chlorooctadecane 106 % 52.1-176

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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 3' (H501019-03)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/21/2015	ND	2.02	101	2.00	1.93	
Toluene*	<0.050	0.050	04/21/2015	ND	1.79	89.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/21/2015	ND	1.73	86.6	2.00	1.11	
Total Xylenes*	<0.150	0.150	04/21/2015	ND	5.50	91.7	6.00	1.06	
Total BTEX	<0.300	0.300	04/21/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19	

Surrogate: 1-Chlorooctane 107 % 47.2-157
Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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* = Accredited Analyte

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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 1' (H501019-04)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/21/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/21/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/21/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID 108 % 61-154)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	832	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 104 % 47.2-157
Surrogate: 1-Chlorooctadecane 99.7 % 52.1-176

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*=Accredited Analyte

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

 Received: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 2' (H501019-05)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/21/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/21/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/21/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	944	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 109 % 47.2-157
Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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*=Accredited Analyte

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

 Received: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 3' (H501019-06)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/21/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/21/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/21/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 108 % 47.2-157

Surrogate: 1-Chlorooctadecane 107 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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

 Received: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 1' (H501019-07)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/21/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/21/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/21/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID 110 % 61-154)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5840	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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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:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-3 2' (H501019-08)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/21/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/21/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/21/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/21/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID 108 % 61-154)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 104 % 47.2-157
Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Analytical Results For:

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

 Received: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 3' (H501019-09)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93	
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7920	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19	

Surrogate: 1-Chlorooctane 105 % 47.2-157
Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 1' (H501019-10)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/22/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5040	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 110 % 47.2-157
Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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 Fax To: (575) 745-8905

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-4 2' (H501019-11)

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	04/22/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/22/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 112 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6160	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 106 % 47.2-157
Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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 Fax To: (575) 745-8905

 Received: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 3' (H501019-12)

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	04/22/2015	ND	2.02	101	2.00	1.93	
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 110 % 61-154)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 94.7 % 52.1-176

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Analytical Results For:

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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-5 1' (H501019-13)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93	
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PII) 113 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19	

Surrogate: 1-Chlorooctane 107 % 47.2-157
Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Analytical Results For:

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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-5 2' (H501019-14)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/22/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 104 % 47.2-157
Surrogate: 1-Chlorooctadecane 101 % 52.1-176

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Analytical Results For:

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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-5 3' (H501019-15)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/22/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID 112 % 61-154)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	800	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	209	104	200	1.11		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	229	114	200	1.19		

Surrogate: 1-Chlorooctane 102 % 47.2-157
Surrogate: 1-Chlorooctadecane 97.5 % 52.1-176

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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-6 1' (H501019-16)

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	04/22/2015	ND	2.02	101	2.00	1.93	
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 113 % 61-154)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 101 % 47.2-157
Surrogate: 1-Chlorooctadecane 97.7 % 52.1-176

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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: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 2' (H501019-17)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93	
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3640	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 104 % 52.1-176

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Analytical Results For:

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

 Received: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 3' (H501019-18)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93	
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

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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: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-7 1' (H501019-19)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93	
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 114 % 61-154)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3800	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Analytical Results For:

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

 Received: 04/17/2015
 Reported: 04/24/2015
 Project Name: SHINNERY 14-5 SWD
 Project Number: 70079414901
 Project Location: LEA COUNTY, NM

 Sampling Date: 04/15/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-7 2' (H501019-20)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/22/2015	ND	2.02	101	2.00	1.93		
Toluene*	<0.050	0.050	04/22/2015	ND	1.79	89.7	2.00	1.95		
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.73	86.6	2.00	1.11		
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.50	91.7	6.00	1.06		
Total BTEX	<0.300	0.300	04/22/2015	ND						

Surrogate: 4-Bromofluorobenzene (PID 112 % 61-154)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	04/21/2015	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/21/2015	ND	210	105	200	0.511		
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63		

Surrogate: 1-Chlorooctane 100 % 47.2-157
Surrogate: 1-Chlorooctadecane 97.2 % 52.1-176

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Analytical Results For:

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

Received:	04/17/2015	Sampling Date:	04/15/2015
Reported:	04/24/2015	Sampling Type:	Soil
Project Name:	SHINNERY 14-5 SWD	Sampling Condition:	Cool & Intact
Project Number:	70079414901	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S-7 3' (H501019-21)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/22/2015	ND	2.13	106	2.00	0.0278	
Toluene*	<0.050	0.050	04/22/2015	ND	1.90	95.2	2.00	0.400	
Ethylbenzene*	<0.050	0.050	04/22/2015	ND	1.81	90.3	2.00	0.992	
Total Xylenes*	<0.150	0.150	04/22/2015	ND	5.72	95.4	6.00	1.48	
Total BTEX	<0.300	0.300	04/22/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 113 % 61-154)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	04/21/2015	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/21/2015	ND	210	105	200	0.511	
DRO >C10-C28	<10.0	10.0	04/21/2015	ND	228	114	200	2.63	

Surrogate: 1-Chlorooctane 102 % 47.2-157
Surrogate: 1-Chlorooctadecane 98.7 % 52.1-176

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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

BILETO

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #:	
Project Manager: R. D. Ison		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia	State: NM	Zip: 88210	
Phone #: 575-746-8768	Fax #: 575-746-8905	Address:	
Project #: 2007414901	Project Owner: Devon	City:	
Project Name: Shineray 14-5 SCD	State:	Zip:	
Project Location: Area	Phone #:		
Sampler Name: R. Sus:ff	Fax #:		

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
11501019	01	S-1	1							4-15-15	12:30	TPH
	02	S-1	2								12:35	BTEX
	03	S-1	3								12:40	Total Chlorides
	04	S-2	1								12:45	
	05	S-2	2								12:50	
	06	S-2	3								12:55	
	07	S-3	1								1:10	
	08	S-3	2								1:15	
	09	S-3	3								1:20	
	10	S-4	1								1:25	

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Relinquished By: *[Signature]* Date: _____ Time: _____
 Received By: *[Signature]* Date: _____ Time: _____

Delivered By: (Circle One) *[Signature]* Date: 4/15/15 Time: 3:00 PM
 Sample Condition: Cool Yes No
 Intact Yes No

Sampler: Bus Other: _____

Checked By: *[Signature]* (Initials) _____

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

REMARKS: _____

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

BILETO

ANALYSIS REQUEST

Project Manager: K Wilson

P.O. #:

Address: 408 W. Texas Ave.

Company: Talon/LPE

City: Artesia

State: NM zip: 88210

Attn:

Phone #: 575-746-8768

Fax #: 575-746-8905

Address:

Project #: 76079419901

Project Owner: Deven

City:

Project Name: Slims 19-55 UN

State: NM

Zip:

Project Location: Zan

Phone #:

Sampler Name: K Swift

Fax #:

FOR LAB USE ONLY

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

H501619

21 S-7 3-

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

4-15-92:30

-

TPH

-

BTX

-

Total Chlorides

-

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Relinquished By: Ken Swift

Date:

Received By: Deven

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

Relinquished By: Ken Swift

Date:

Received By: Deven

Time:

Date: 4/17/92

Time: 3:00

Typed: Deven

Sample Condition

Cool Intact

Yes No

Checked By: Deven

Initials: Deven

Delivered By: (Circle One)

Sampler - UPS Bus Other: 2.82

Checked By: Deven

Initials: Deven

3 of 3

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

#511

APPENDIX IV

FINAL C-141