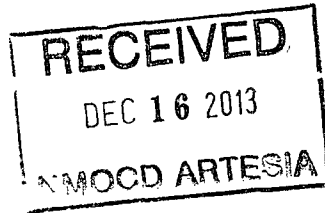




November 26, 2013



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

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

Subject: **Soil Assessment and Remediation Work Plan**
Lime Rock Resources
Federal T SWD #001
30-015-26404

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

Dear Mr. Bratcher,

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

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

Incident Date

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

The release was discovered on October 31, 2013 at 1:30 pm.

Background Information

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

The Federal T SWD #001 is located approximately fourteen (14) miles southeast of Artesia, New Mexico the legal location for this site is Unit Letter K of Section 12, Township 18 South, Range 27 East. More specifically the latitude and longitude for the release are 32.767150 North and -104.226800 West. A site plan is presented in Appendix I.

SAN ANTONIO
11 Commercial Place
Schertz, Texas 78154
Phone 210.265.8025
Fax 210.568.2191

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 Kimbrough-Stegall loams, with 0 to 3 percent slopes. 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 deposits. Drainage courses in this area are normally dry. Ground water in the project vicinity is greater than 250-feet below ground surface (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:

ENVIRONMENTAL CONSULTING	Depth to ground water	>100'
ENGINEERING	Wellhead Protection Area	>1000'
DRILLING	Distance to surface water body	>1000
CONSTRUCTION		
SPILL MANAGEMENT		
GENERAL CONTRACTING		

Incident Description

The produced water tanks overflowed, filled the steel containment then ran over onto the location. The caliche berms around the location contained most of the fluid to the location. A small amount of the fluid penetrated the berms and flowed from the East side of the location and into the pasture for approximately 100-feet. Talon personnel mobilized a backhoe to perform a site assessment and soil sampling. Laboratory results from the above reference sampling activities are summarized below.

Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0.5	ND	12800	ND	ND
S-1	4	ND	8800	ND	ND
S-1	6	--	336	--	--
S-2	0.5	--	6660	ND	ND
S-2	1	ND	1810	ND	ND
S-2	2	ND	672	ND	ND
S-3	0	2.83	33200	11.4	13.6
S-3	1	ND	4480	ND	ND
S-3	2	ND	336	ND	ND
S-4	0	ND	23600	ND	34.6
S-4	1	ND	80	ND	ND
S-4	2	ND	64	ND	ND
S-5	0	ND	8880	ND	ND
S-5	2	ND	1820	ND	ND
S-5	4	--	2000	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

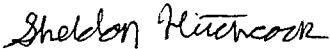
Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH.


Proposed Remedial Actions

- The impacted area in the vicinity of S-1 will be excavated to a depth of 5-feet bgs and a confirmation sample will be taken from the bottom of the excavation to insure that all of the chloride impacted soil has been removed.
- The impacted area in the vicinity of sample locations S-2 and S-3 will be excavated to a depth of 2-feet bgs.
- The impacted area in the vicinity of sample location S-4 will be excavated to a depth of 1-foot bgs.
- The impacted area in the vicinity of S-5 will be excavated to a depth of 5-feet bgs and a confirmation sample will be taken from the bottom of the excavation to insure that all of the chloride impacted soil has been removed.
- All of the excavated material will be disposed of at an NMOCD approved solid waste disposal facility.
- The excavated area on the location will be backfilled with caliche.
- The excavated areas in the pasture will be backfilled with top soil, contoured to match the surrounding terrain and seeded with BLM seed mixture #1.

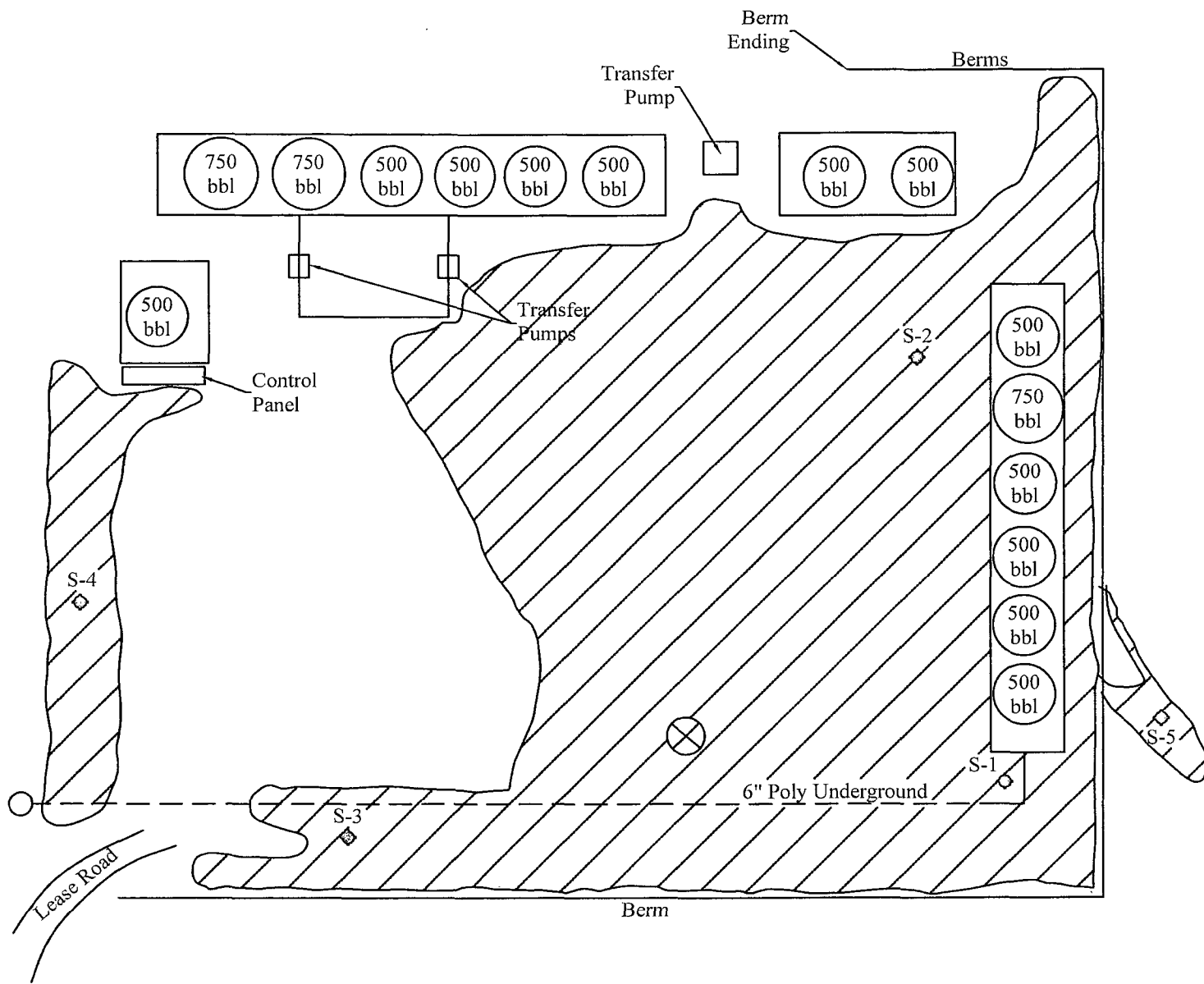
Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,


Sheldon Hitchcock
Environmental Scientist


David J. Adkins
District Manager

SITE PLAN



Legend

◆ - Sample Location



Date: 11/15/2013

Scale: NTS

Drawn By: TJS

Fed T SWD Transfer Station
 Lime Rock Resources
 Eddy County, New Mexico
 Figure 1 - Site Plan

GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD	Sub	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
POD Number	Code	basin	County	64	16	4							
RA 04561			ED	4	2	26	17S	27E	570871	3630142*	4702	250	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

Basin/County Search:

County: Eddy

UTM NAD83 Radius Search (in meters):

Easting (X): 572527

Northing (Y): 3625741

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.

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

State of New Mexico
Energy Minerals and Natural Resources

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

RECEIVED

DEC 16 2013

Form C-141
Revised August 8, 2011

NMOCDACTE5011
Submit Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report


Name of Company	Lime Rock Resources II-A, L.P.	Contact	Michael Barrett
Address	1111 Bagby Street Suite 4600, Houston, TX 77002	Telephone No.	575-623-8424
Facility Name	Federal T Transfer Station	Facility Type	Produced Water Transfer Station
Surface Owner	COG	Mineral Owner	Federal
		API No.	30-015-26404

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	12	18S	27E	660	North	990	East	Eddy County

Latitude 32.767150 Longitude 104.226800

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	2247 bbls	Volume Recovered	1987 bbls
Source of Release	Tank Battery	Date and Hour of Occurrence	Mid Morning on 10/31/13	Date and Hour of Discovery	10/31/13 @ 1:30 pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Jim Amos w/ BLM and Randy Dade w/ OCD		
By Whom?	Michael Barrett	Date and Hour	10/31/13 5:30 & 5:45pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	N/A		
If a Watercourse was Impacted, Describe Fully.* N/A					
Describe Cause of Problem and Remedial Action Taken.* Produced water tanks overflowed filling steel containment which then ran over on to location. Location has caliche berms, keeping release on site. Plan to pick up saturated soil and replace with clean caliche.					
Describe Area Affected and Cleanup Action Taken.* Hard packed caliche. Picked up all standing fluid.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature: 		OIL CONSERVATION DIVISION			
Printed Name: Michael Barrett		Approved by Environmental Specialist:			
Title: Production Supervisor		Approval Date:		Expiration Date:	
E-mail Address: mbarrett@limerockresources.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 11/01/2013 Phone: 575-623-8424					

* Attach Additional Sheets If Necessary

LABORATORY RESULTS

November 18, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL T SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/11/13 13:55.

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.

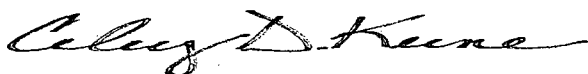
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

 Received: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0.5' (H302742-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2013	ND	1.66	83.0	2.00	12.6	
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8	
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6	
Total BTX	<0.300	0.300	11/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	12800	16.0	11/13/2013	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	<10.0	10.0	11/12/2013	ND	199	99.4	200	7.54	
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14	

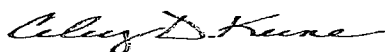
Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 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: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 4' (H302742-02)

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	11/13/2013	ND	1.66	83.0	2.00	12.6	
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8	
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6	
Total BTEX	<0.300	0.300	11/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 105 % 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	8800	16.0	11/13/2013	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	<10.0	10.0	11/12/2013	ND	199	99.4	200	7.54	
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

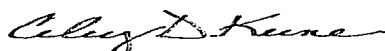
Sample ID: S-1 6' (H302742-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	11/13/2013	ND	400	100	400	3.92	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 0.5' (H302742-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2013	ND	1.66	83.0	2.00	12.6	
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8	
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6	
Total BTX	<0.300	0.300	11/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 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	6660	16.0	11/13/2013	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	<10.0	10.0	11/12/2013	ND	199	99.4	200	7.54	
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14	

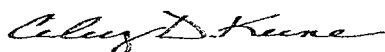
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 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: 11/11/2013
Reported: 11/18/2013
Project Name: FEDERAL T SWD
Project Number: 701307.056.01
Project Location: NONE GIVEN

Sampling Date: 11/08/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H302742-05)

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	11/13/2013	ND	1.66	83.0	2.00	12.6		
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8		
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9		
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6		
Total BTEX	<0.300	0.300	11/13/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	1810	16.0	11/13/2013	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	<10.0	10.0	11/12/2013	ND	199	99.4	200	7.54		
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14		

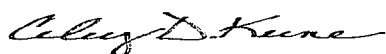
Surrogate: 1-Chlorooctane 88.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.5 % 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: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 2' (H302742-06)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2013	ND	1.66	83.0	2.00	12.6	
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8	
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6	
Total BTX	<0.300	0.300	11/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 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	672	16.0	11/13/2013	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	<10.0	10.0	11/12/2013	ND	199	99.4	200	7.54	
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	186	92.9	200	7.14	

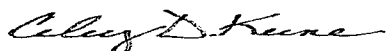
Surrogate: 1-Chlorooctane 69.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 76.2 % 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: 11/11/2013
Reported: 11/18/2013
Project Name: FEDERAL T SWD
Project Number: 701307.056.01
Project Location: NONE GIVEN

Sampling Date: 11/08/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H302742-07)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.113	0.050	11/13/2013	ND	1.66	83.0	2.00	12.6	
Toluene*	0.570	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8	
Ethylbenzene*	0.675	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9	
Total Xylenes*	1.47	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6	
Total BTEX	2.83	0.300	11/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 133 % 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	33200	16.0	11/13/2013	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	11.4	10.0	11/12/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	13.6	10.0	11/12/2013	ND	188	94.0	200	9.72	


Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 1' (H302742-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2013	ND	1.66	83.0	2.00	12.6	
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8	
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6	
Total BTX	<0.300	0.300	11/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 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	4480	16.0	11/13/2013	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	<10.0	10.0	11/12/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	188	94.0	200	9.72	

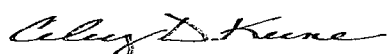
Surrogate: 1-Chlorooctane 80.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.7 % 63.6-154

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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: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 2' (H302742-09)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/13/2013	ND	1.66	83.0	2.00	12.6	
Toluene*	<0.050	0.050	11/13/2013	ND	1.68	84.2	2.00	11.8	
Ethylbenzene*	<0.050	0.050	11/13/2013	ND	1.69	84.7	2.00	11.9	
Total Xylenes*	<0.150	0.150	11/13/2013	ND	5.13	85.4	6.00	10.6	
Total BTX	<0.300	0.300	11/13/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 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	336	16.0	11/13/2013	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	<10.0	10.0	11/12/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	188	94.0	200	9.72	

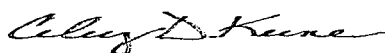
Surrogate: 1-Chlorooctane 86.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.0 % 63.6-154

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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: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 0' (H302742-10)

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	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/14/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	23600	16.0	11/13/2013	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	<10.0	10.0	11/12/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	34.6	10.0	11/12/2013	ND	188	94.0	200	9.72	

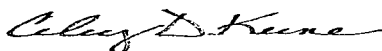
Surrogate: 1-Chlorooctane 98.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Analytical Results For:

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

Received: 11/11/2013
Reported: 11/18/2013
Project Name: FEDERAL T SWD
Project Number: 701307.056.01
Project Location: NONE GIVEN

Sampling Date: 11/08/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H302742-11)

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	11/14/2013	ND	1.75	87.5	2.00	13.2		
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0		
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2		
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7		
Total BTEX	<0.300	0.300	11/14/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 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	80.0	16.0	11/14/2013	ND	432	108	400	3.77	

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	11/12/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/12/2013	ND	188	94.0	200	9.72	

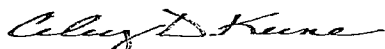
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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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: 11/11/2013
Reported: 11/18/2013
Project Name: FEDERAL T SWD
Project Number: 701307.056.01
Project Location: NONE GIVEN

Sampling Date: 11/08/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 2' (H302742-12)

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	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTEX	<0.300	0.300	11/14/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	11/14/2013	ND	432	108	400	3.77	

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	11/13/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/13/2013	ND	188	94.0	200	9.72	

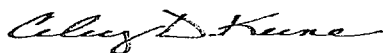
Surrogate: 1-Chlorooctane 91.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

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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: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 0' (H302742-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTX	<0.300	0.300	11/14/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 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	8880	16.0	11/14/2013	ND	432	108	400	3.77	

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	11/13/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/13/2013	ND	188	94.0	200	9.72	

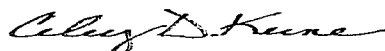
Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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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: 11/11/2013
 Reported: 11/18/2013
 Project Name: FEDERAL T SWD
 Project Number: 701307.056.01
 Project Location: NONE GIVEN

 Sampling Date: 11/08/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 2' (H302742-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/14/2013	ND	1.75	87.5	2.00	13.2	
Toluene*	<0.050	0.050	11/14/2013	ND	1.75	87.4	2.00	13.0	
Ethylbenzene*	<0.050	0.050	11/14/2013	ND	1.74	87.1	2.00	13.2	
Total Xylenes*	<0.150	0.150	11/14/2013	ND	5.12	85.3	6.00	12.7	
Total BTX	<0.300	0.300	11/14/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	1820	16.0	11/14/2013	ND	432	108	400	3.77	

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	11/13/2013	ND	197	98.6	200	7.27	
DRO >C10-C28	<10.0	10.0	11/13/2013	ND	188	94.0	200	9.72	

Surrogate: 1-Chlorooctane 98.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

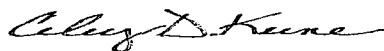
Sample ID: S-5 4' (H302742-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	11/14/2013	ND	432	108	400	3.77	

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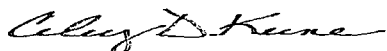
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- 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: Talon / LPE				BILL TO				ANALYSIS REQUEST											
Project Manager: D. Atkins				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 #: 701307.066.01 Project Owner: Lime Rock				City:															
Project Name: Fed T SWD				State: Zip:															
Project Location:				Phone #:															
Sampler Name: S. Hitchcock				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)		MATRIX		PRESERV.		SAMPLING		TPH DTEX Culivides							
H302742																			
1 S-1 0.5'		G 1										11/8/03 9:00							
2 S-1 4'		G 1										10:34							
3 S-1 6'		G 1										11:32							
4 S-2 0.5'		G 1										11:33							
5 S-2 1'		G 1										11:35							
6 S-2 2'		G 1										1:05							
7 S-3 0'		G 1										2:09							
8 S-3 1'		G 1										2:11							
9 S-3 2'		G 1										2:13							
10 S-4 0'		G 1										3:02							

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Relinquished By:		Date: 11/11/03		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:	
Relinquished By:		Date: 11/11/03		Received By:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Time: 1:55		Time: 1:55		REMARKS:			
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY:		Time: 5:22					



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>		BILL TO		ANALYSIS REQUEST																				
Project Manager: <u>D. Adkins</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>701307.056.01</u> Project Owner: <u>Lime Rock</u>		City:																						
Project Name: <u>Fed T SWD</u>		State: Zip:																						
Project Location:		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	BTEX	Clenides							
H1302742																								
11	S-4 1'	G	1			/				/			11/8/10	3:04	/	/	/							
12	S-4 2'	G	1			/				/				2:29	/	/	/							
13	S-5 0'	G	1			/				/				3:23	/	/	/							
14	S-5 2'	G	1			/				/				2:53	/	/	/							
15	S-5 4'	G	1			/				/				2:55	/	/	/							

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Relinquished By: <u>Sheldan Ritz</u>	Date: <u>11/11/13</u> Time: <u>1:55</u>	Received By: <u>Jodi Munson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Date: <u>11/11/13</u> Time: <u>1:55</u>	Received By: <u>[Signature]</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>5.20</u>		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>[Signature]</u>	