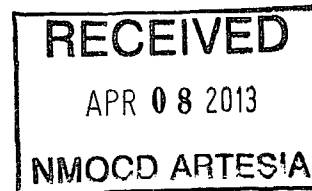




March 4, 2012



Mr. Mike Bratcher
NMOCD District 2
1301 West Grand Avenue
Artesia, NM 88210

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

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

AUSTIN
911 West Anderson Lane
Suite 202
Austin, Texas 78757
Phone 512.989.3428
Fax 512.989.3487

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

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

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

TULSA
525 South Main Street
Suite 535
Tulsa, Oklahoma 74103
Phone 918.742.0871
Fax 918.382.0232

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Subject: **Soil Assessment and Remediation Work Plan**
Lime Rock Resources II-A, L.P.
Logan State No. 2
30-015-30406 2RP-H514 1514

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. (Lime Rock) contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Logan State No. 2. The completed remediation activities and closure request are submitted herein.

Incident Date

January 9, 2013

Background Information

The Logan State No. 2 is located approximately twelve (12) miles southeast of Artesia, New Mexico. The legal location for the site is Section 2, Township 18 South and Range 27 East in Eddy County, New Mexico. More Specifically, the latitude and longitude for the release are 32.78018 North and -104.25143 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Gypsum land Cottonwood complex with 0 to 3 percent slopes. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadalupian Artesia Group, Tansil and Yates formations which include silty soils underlain by gypsum and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S10-T18S-R27E. The ground water in the area is reported to be 50' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 10 based on the as following:

Depth to ground water	50' - 100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Incident Description

On January 9, 2013 a transfer pump malfunctioned causing the water tank to overflow. Approximately 102 barrels of produced water were released breaching the earthen berms. A vacuum truck was brought to the location and 20 barrels of produced water were recovered.

Actions Taken

On January 21, 2013 Talon/LPE mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 1-foot below ground surface. The soil sample locations are illustrated on the attached site plan.

On February 13, 2013 Talon returned to the site to collect additional soil samples utilizing an air rotary rig for vertical delineation of the impacted area. Grab soil samples were collected from surface to a depth of 10-feet deep.

Soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and analysis of Chlorides using Method SM4500CL-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

January 28, 2013

<u>Sample</u>	<u>Depth</u>	<u>Chlorides</u>	<u>BTEX</u>	<u>TPH (mg/kg)</u>
S-1	0'	80000	69.7	32930
	1'	32000	14.9	35.1
S-2	0'	28400	<0.300	243
	0.5'	12200	<0.300	<10
S-3	0'	19800	<0.300	462
	1'	16800	<0.300	<10

February 19, 2013

<u>Sample, Depth</u>	<u>Chlorides</u>	<u>BTEX</u>	<u>TPH (mg/kg)</u>
BH-1 0'	14200	<0.300	<10
2'	12000	<0.300	<10
4'	5120	--	--
6'	5360	--	--
8'	208	--	--
10'	112	--	--
BH-2 0'	6000	<0.300	<10
2'	2000	<0.300	56.2
4'	912	--	--
6'	672	--	--
8'	160	--	--
10'	96	--	--

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 1,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

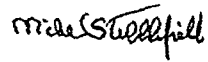
Proposed Remedial Actions

- The impacted areas located inside of the berm and outside of the berm will be excavated to a depth of 2-feet deep or to bedrock (refusal) and transported to a NMOCD approved solid waste disposal facility.
- Confirmation soil samples will be collected from the sidewalls of the impacted areas. The soil samples will be submitted to the laboratory for TPH analysis using Method 8015M, BTEX analysis using Method 8021B.
- Upon approval of the confirmation samples, the excavated areas will be backfilled to grade using new material transported from a local borrow pit. The areas will be contoured to match the existing location.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including Form C-141.

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

Respectfully submitted,

TALON/LPE

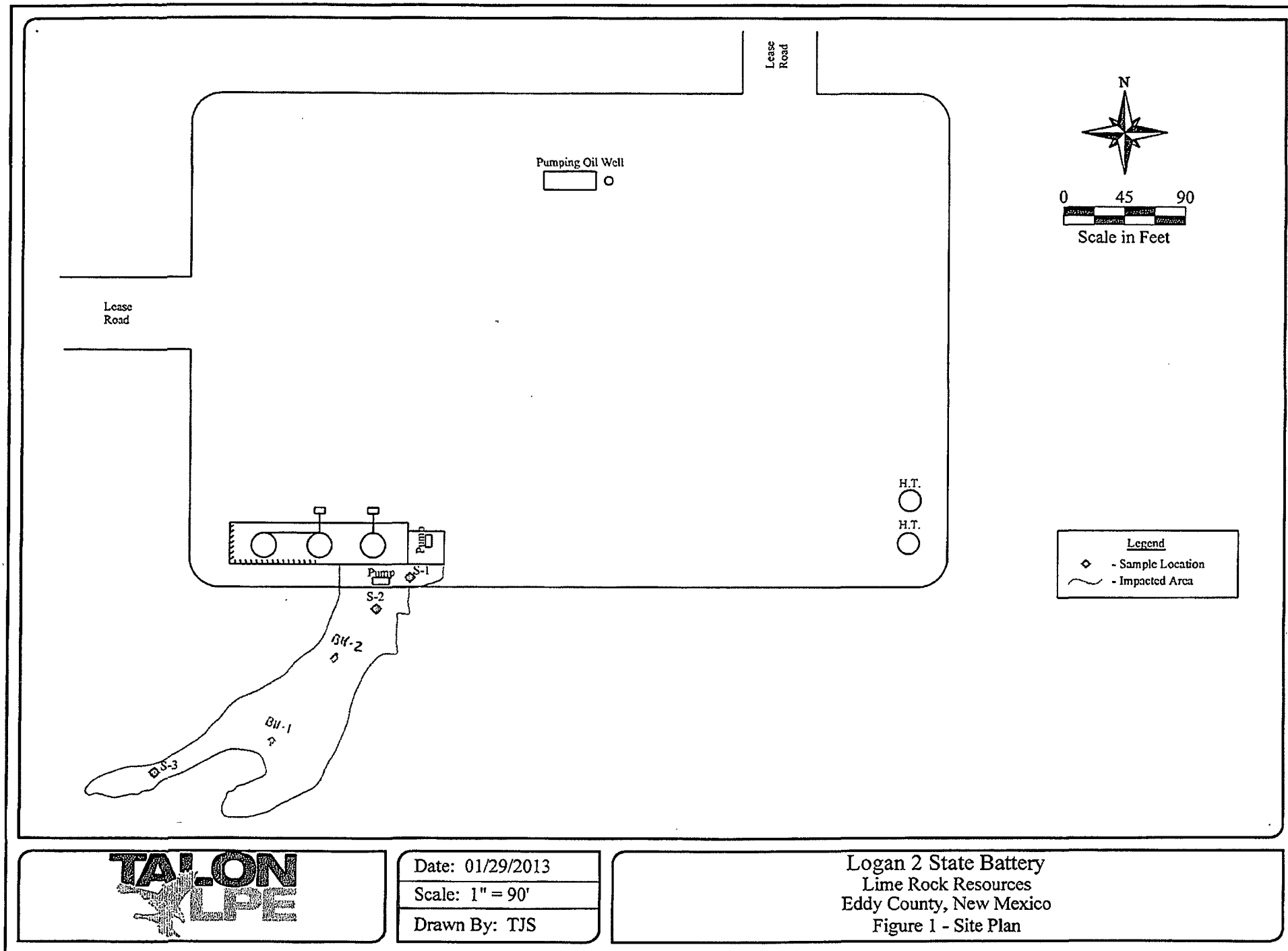
A handwritten signature in cursive script, appearing to read "Mike Stubblefield".

Mike Stubblefield
Project Manager

A handwritten signature in cursive script, appearing to read "David J. Adkins".

David J. Adkins
District Manager

SITE MAP



APPENDIX I
GROUNDWATER DATA
INITIAL C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

JMW1302248821 277558 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	Logan 2 State #2	Facility Type	Battery
Surface Owner	Bogle	Mineral Owner	State
		API No.	30-015-30406

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	2	18S	27E	990	North	1750	West	Eddy

Latitude 32.78018 Longitude 104.25143

NATURE OF RELEASE

Type of Release	Produced Water	Volume of Release	102 bbls	Volume Recovered	20 bbls
Source of Release	Tank overflow	Date and Hour of Occurrence	01/09/13 am	Date and Hour of Discovery	01/09/13 8:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher with OCD		
By Whom?	Mike Stubblefield with Talon LPE	Date and Hour	01/09/13 9:30 am		
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.*
Transfer pump failed, tanks filled and overflowed water tank.
Release was contained in earth berms until berms were breached.
Standing fluid was recovered.

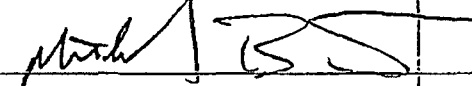
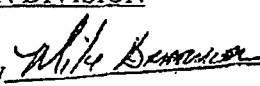
RECEIVED

JAN 16 2013

NMOCD ARTESIA

Describe Area Affected and Cleanup Action Taken.*
The affected area was located inside the bermed area of the tank battery, impacted area outside the battery measured approx 270' long x 80' wide.
The soils in the area include silty soils underlain by gypsum and caliches.
A hydrovac will be utilized to remove the impacted material around lines located within tank battery.
Talon/ LPE has been contracted to sample impacted area and will construct a work plan for submittal to OCD.

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	Signed By 
Title: Production Supervisor	Approval Date: JAN 22 2013	Expiration Date:
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval: Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION	Attached <input type="checkbox"/>
Date: 01/9/2013	Phone: 575-623-8424	

PROPOSAL NO LATER THAN:
Feb. 22, 2013

2RP-1514



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		Q Q Q										Depth	Depth	Water		
POD Number	Code	Subbasin	County	64	16	4	Sec	Tws	Rng	X	Y	Distance	Well	Water	Column	
<u>RA 03917</u>			LE	4	1	2	10	18S	27E	569019	3625660*	1922	130	50	80	
														Average Depth to Water:		50 feet
														Minimum Depth:		50 feet
														Maximum Depth:		50 feet

Record Count: 1

UTMNAD83 Radius Search (In meters):

Easting (X): 569800

Northing (Y): 3627417

Radius: 2000

*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 II
LABORATORY RESULTS



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

January 28, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN 2 STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 01/22/13 12:45.

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.

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

 Received: 01/22/2013
 Reported: 01/28/2013
 Project Name: LOGAN 2 STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: SEC. 2 - T18S - R27E

 Sampling Date: 01/21/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H300170-01)

BTX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.02	0.500	01/25/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	19.8	0.500	01/25/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	15.9	0.500	01/25/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	29.9	1.50	01/25/2013	ND	6.04	101	6.00	13.5	
Total BTX	69.7	3.00	01/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 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	80000	16.0	01/25/2013	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
		S-06							

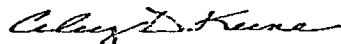
Surrogate: 1-Chlorooctane 148 % 65.2-140

Surrogate: 1-Chlorooctadecane 861 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/22/2013
Reported: 01/28/2013
Project Name: LOGAN 2 STATE BATTERY
Project Number: NONE GIVEN
Project Location: SEC. 2 - T18S - R27E

Sampling Date: 01/21/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H300170-02)

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.40	0.100	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	5.38	0.100	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	2.97	0.100	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	5.16	0.300	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTEX	14.9	0.600	01/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 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	32000	16.0	01/25/2013	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	13.3	10.0	01/24/2013	ND	188	94.2	200	1.42	
DRO >C10-C28	21.8	10.0	01/24/2013	ND	196	98.0	200	0.134	

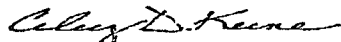
Surrogate: 1-Chlorooctane 59.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 69.5 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 01/22/2013
Reported: 01/28/2013
Project Name: LOGAN 2 STATE BATTERY
Project Number: NONE GIVEN
Project Location: SEC. 2 - T18S - R27E

Sampling Date: 01/21/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H300170-03)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	<0.050	0.050	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	<0.050	0.050	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	<0.150	0.150	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTX	<0.300	0.300	01/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	28400	16.0	01/25/2013	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	<10.0	10.0	01/24/2013	ND	188	94.2	200	1.42	
DRO >C10-C28	243	10.0	01/24/2013	ND	196	98.0	200	0.134	

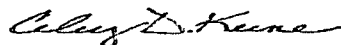
Surrogate: 1-Chlorooctane 77.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.1 % 63.6-134

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 01/22/2013
Reported: 01/28/2013
Project Name: LOGAN 2 STATE BATTERY
Project Number: NONE GIVEN
Project Location: SEC. 2 - T18S - R27E

Sampling Date: 01/21/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0.5' (H300170-04)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	<0.050	0.050	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	<0.050	0.050	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	<0.150	0.150	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTX	<0.300	0.300	01/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	12200	16.0	01/25/2013	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	<10.0	10.0	01/26/2013	ND	205	103	200	19.4	
DRO >C10-C28	<10.0	10.0	01/26/2013	ND	198	99.0	200	15.1	

Surrogate: 1-Chlorooctane 98.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 01/22/2013
 Reported: 01/28/2013
 Project Name: LOGAN 2 STATE BATTERY
 Project Number: NONE GIVEN
 Project Location: SEC. 2 - T18S - R27E

 Sampling Date: 01/21/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 0' (H300170-05)

BTX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	<0.050	0.050	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	<0.050	0.050	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	<0.150	0.150	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTX	<0.300	0.300	01/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	19800	16.0	01/25/2013	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	<10.0	10.0	01/24/2013	ND	205	103	200	19.4	
DRO >C10-C28	462	10.0	01/24/2013	ND	198	99.0	200	15.1	

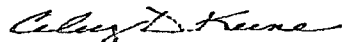
Surrogate: 1-Chlorooctane 66.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 80.7 % 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
MIKE STUBBLEFIELD
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 01/22/2013
Reported: 01/28/2013
Project Name: LOGAN 2 STATE BATTERY
Project Number: NONE GIVEN
Project Location: SEC. 2 - T18S - R27E

Sampling Date: 01/21/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H300170-06)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/26/2013	ND	1.81	90.3	2.00	13.2	
Toluene*	<0.050	0.050	01/26/2013	ND	1.92	96.0	2.00	13.2	
Ethylbenzene*	<0.050	0.050	01/26/2013	ND	1.99	99.7	2.00	13.4	
Total Xylenes*	<0.150	0.150	01/26/2013	ND	6.04	101	6.00	13.5	
Total BTX	<0.300	0.300	01/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	16800	16.0	01/25/2013	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	<10.0	10.0	01/24/2013	ND	205	103	200	19.4	
DRO >C10-C28	<10.0	10.0	01/24/2013	ND	198	99.0	200	15.1	

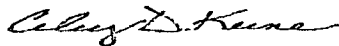
Surrogate: 1-Chlorooctane 66.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 78.1 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

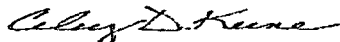
Notes and Definitions

- 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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476

[illegible]

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



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

February 19, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN 2 STATE NO. 2

Enclosed are the results of analyses for samples received by the laboratory on 02/13/13 14:45.

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.

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: 02/13/2013
Reported: 02/19/2013
Project Name: LOGAN 2 STATE NO. 2
Project Number: 701307.045.01
Project Location: SEC. 2 - T18S - R27E

Sampling Date: 02/13/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH - 1 0' (H300412-01)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEX	<0.300	0.300	02/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	02/18/2013	ND	448	112	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	

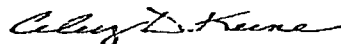
Surrogate: 1-Chlorooctane 78.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.5 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/19/2013	Sampling Type:	Soil
Project Name:	LOGAN 2 STATE NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701307.045.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R27E		

Sample ID: BH - 1 2' (H300412-02)

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTEx	<0.300	0.300	02/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	02/18/2013	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	

Surrogate: 1-Chlorooctane 67.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.3 % 63.6-154

Sample ID: BH - 1 4' (H300412-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	02/18/2013	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 02/13/2013
Reported: 02/19/2013
Project Name: LOGAN 2 STATE NO. 2
Project Number: 701307.045.01
Project Location: SEC. 2 - T18S - R27E

Sampling Date: 02/13/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BH - 2 0' (H300412-07)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTX	<0.300	0.300	02/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	02/18/2013	ND	448	112	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	<10.0	10.0	02/19/2013	ND	207	104	200	15.6	

Surrogate: 1-Chlorooctane 75.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/19/2013	Sampling Type:	Soil
Project Name:	LOGAN 2 STATE NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701307.045.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R27E		

Sample ID: BH - 2 2' (H300412-08)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/19/2013	ND	2.38	119	2.00	0.589	
Toluene*	<0.050	0.050	02/19/2013	ND	2.33	117	2.00	0.465	
Ethylbenzene*	<0.050	0.050	02/19/2013	ND	2.27	113	2.00	0.379	
Total Xylenes*	<0.150	0.150	02/19/2013	ND	6.91	115	6.00	0.715	
Total BTX	<0.300	0.300	02/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	02/18/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/19/2013	ND	208	104	200	3.34	
DRO >C10-C28	56.2	10.0	02/19/2013	ND	207	104	200	15.6	

Surrogate: 1-Chlorooctane 68.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.6 % 63.6-154

Sample ID: BH - 2 4' (H300412-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	02/18/2013	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2013	Sampling Date:	02/13/2013
Reported:	02/19/2013	Sampling Type:	Soil
Project Name:	LOGAN 2 STATE NO. 2	Sampling Condition:	Cool & Intact
Project Number:	701307.045.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T18S - R27E		

Sample ID: BH - 2 6' (H300412-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	02/18/2013	ND	448	112	400	0.00	

Sample ID: BH - 2 8' (H300412-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/18/2013	ND	448	112	400	0.00	

Sample ID: BH - 2 10' (H300412-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/18/2013	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

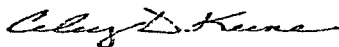
Notes and Definitions

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>				BILL TO				ANALYSIS REQUEST													
Project Manager: <u>Mike Stappell</u>				P.O. #:																	
Address: <u>408 West Travis Ave</u>				Company: <u>Talon LPE</u>																	
City: <u>Alexia</u> State: <u>NM</u> Zip: <u>88210</u>				Attn:																	
Phone #: <u>505-441-2254</u> Fax #:				Address:																	
Project #: <u>201302, 045.01</u> Project Owner: <u>Lime Rock Res., LLC</u>				City:																	
Project Name: <u>Logan Z State No. 2</u>				State: Zip:																	
Project Location: <u>Sec. 2 - T18S - R22E</u>				Phone #:																	
Sampler Name: <u>Mike Stappell</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															
<u>H300412</u>																					
<u>1</u>	<u>BH-1 0'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:48A</u>	/	/												
<u>2</u>	<u>BH-1 2'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:49A</u>	/	/												
<u>3</u>	<u>BH-1 4'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:50A</u>	/	/												
<u>4</u>	<u>BH-1 6'</u>	<u>5</u>		/	/	<u>2/12/13</u>	<u>11:51A</u>	/	/												
<u>5</u>	<u>BH-1 8'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:53A</u>	/	/												
<u>6</u>	<u>BH-1 10'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:54A</u>	/	/												
<u>7</u>	<u>BH-2 0'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:18A</u>	/	/												
<u>8</u>	<u>BH-2 2'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:19A</u>	/	/												
<u>9</u>	<u>BH-2 4'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:21A</u>	/	/												
<u>10</u>	<u>BH-2 6'</u>	<u>5</u>		/	/	<u>2/13/13</u>	<u>11:22A</u>	/	/												

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Relinquished By: <u>Mike Stappell</u>	Date: <u>2/13/13</u> Received By: <u>Debi Dawson</u>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:
Relinquished By: _____	Date: _____ Received By: _____	Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #:
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2.2

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