



July 7, 2015

Ms. 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

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

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

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

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

Subject: **Soil Assessment and Remediation Work Plan**
Lime Rock Resources II-A, L.P.
Logan 35 Tank Battery
30-015-30409

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. (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.

Background Information

The Logan 35 Tank Battery is located approximately twelve miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter O, Section 35, Township 17 South and Range 27 East. More specifically the latitude and longitude for this release are 32.78660977 North and -104.2476784 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Gypsum land-Cottonwood complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of older alluvial deposits of upland plains and piedmont areas. Drainage courses in this area are normally dry. Groundwater in the project vicinity is approximately 100-feet below ground surface (bgs) according to the 2006 Chevron Texaco Groundwater Trend Map. See [Appendix II](#) for the referenced groundwater data.

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

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

The number 2 transfer pump failed resulting in a release of approximately 805bbls of produced water and 15bbls of oil. Upon discovery of the release vacuum trucks were immediately dispatched to the location and were able to recover approximately 780bbls of mixed fluids from the battery and location.

Equipment and personnel were mobilized to begin conducting remedial activities on the location and within the battery. The saturated material was scraped off of the surface of the location. Hydro-excavation and hand digging began in the battery to remove the saturated material to a depth of approximately 1-foot bgs or to the point to where excavation was no longer feasible due to concerns over the structural integrity of the tanks.

Talon mobilized personnel to conduct an initial site assessment and to perform soil sampling within the impacted area. Analytical results from the soil sampling activities are summarized in the table below.

Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	9600	ND	ND
S-1	1	ND	1310	ND	ND
S-1	2	ND	624	ND	ND
S-1	3	--	304	ND	ND
S-1	4	--	192	--	--
S-2	0	9.02	13700	74.8	2340
S-2	1	ND	288	ND	ND
S-2	2	ND	1640	ND	ND
S-2	3	ND	832	ND	ND
S-2	4	--	1300	--	--
S-2	5	--	1200	--	--
S-2	6	--	560	--	--
S-2	7	--	640	--	--
S-3	0	ND	10100	ND	ND
S-3	1	ND	416	ND	ND
S-3	2	--	2200	--	--
S-3 Refusal	3	--	1880	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

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

Proposed Remedial Actions

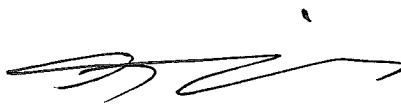
- Hand digging has begun within the battery. Excavation depths have reached a minimum of 1-foot bgs between the tanks. The west side of the battery will be excavated to a depth of 1-foot bgs utilizing a backhoe.
- As part of the initial remedial activities the location, has been excavated to a depth of 0.5-feet bgs.
- Due to the fact that this facility is the primary battery for Lime Rock's production in the area an excavation over 0.5-feet bgs will significantly impact daily operations, possibly closing the facility and shutting in Lime Rock's wells due to lack of truck access. Therefore on behalf of Lime Rock Resources we respectfully request an excavation of 0.5-feet deep and that the remaining chloride impacts at this location be remediated at the closure of the facility.

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

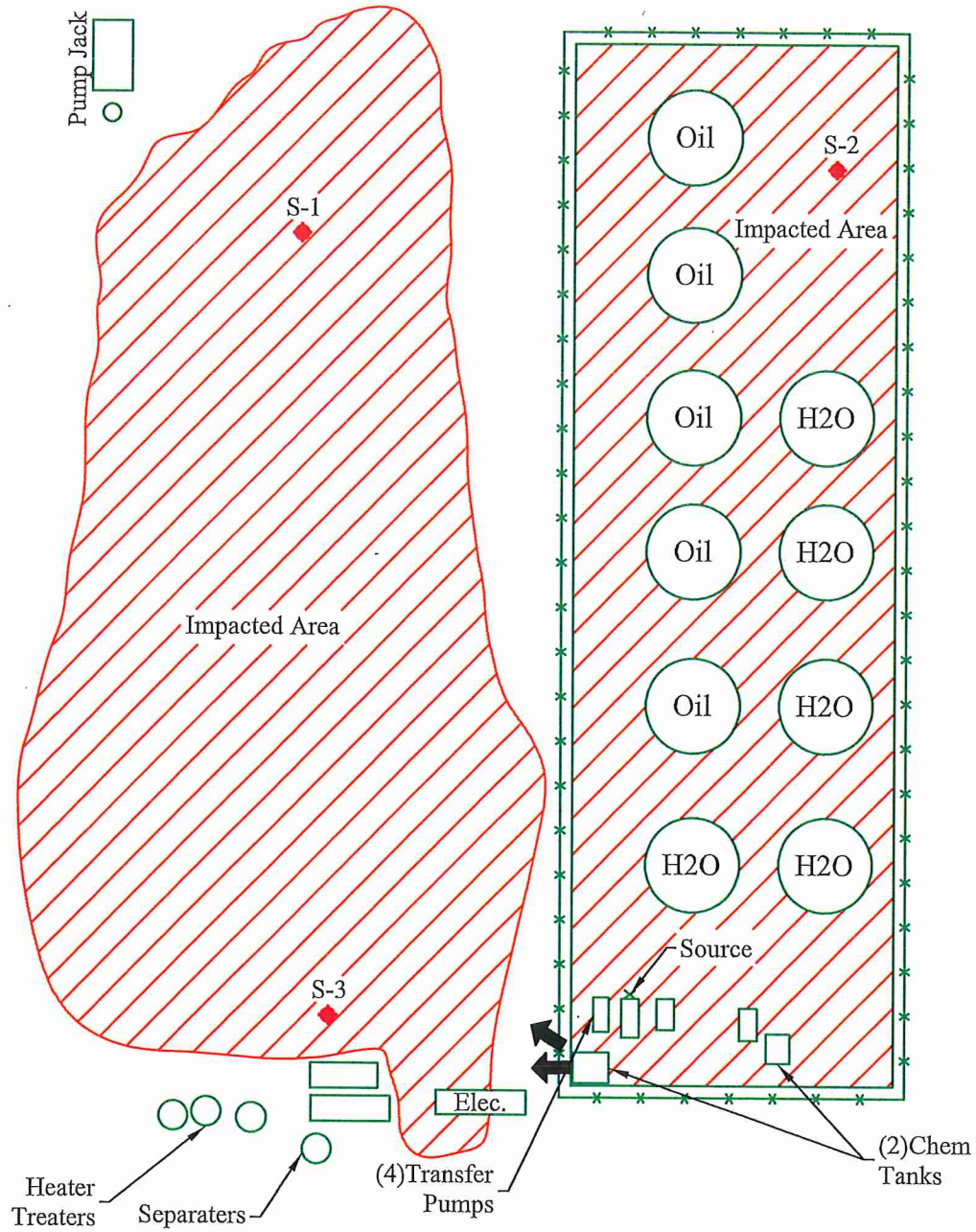
Respectfully submitted,

TALON/LPE


Sheldon L. Hitchcock
Project Manager


David J. Adkins
District Manager

SITE PLAN



0 15 30
Scale in Feet

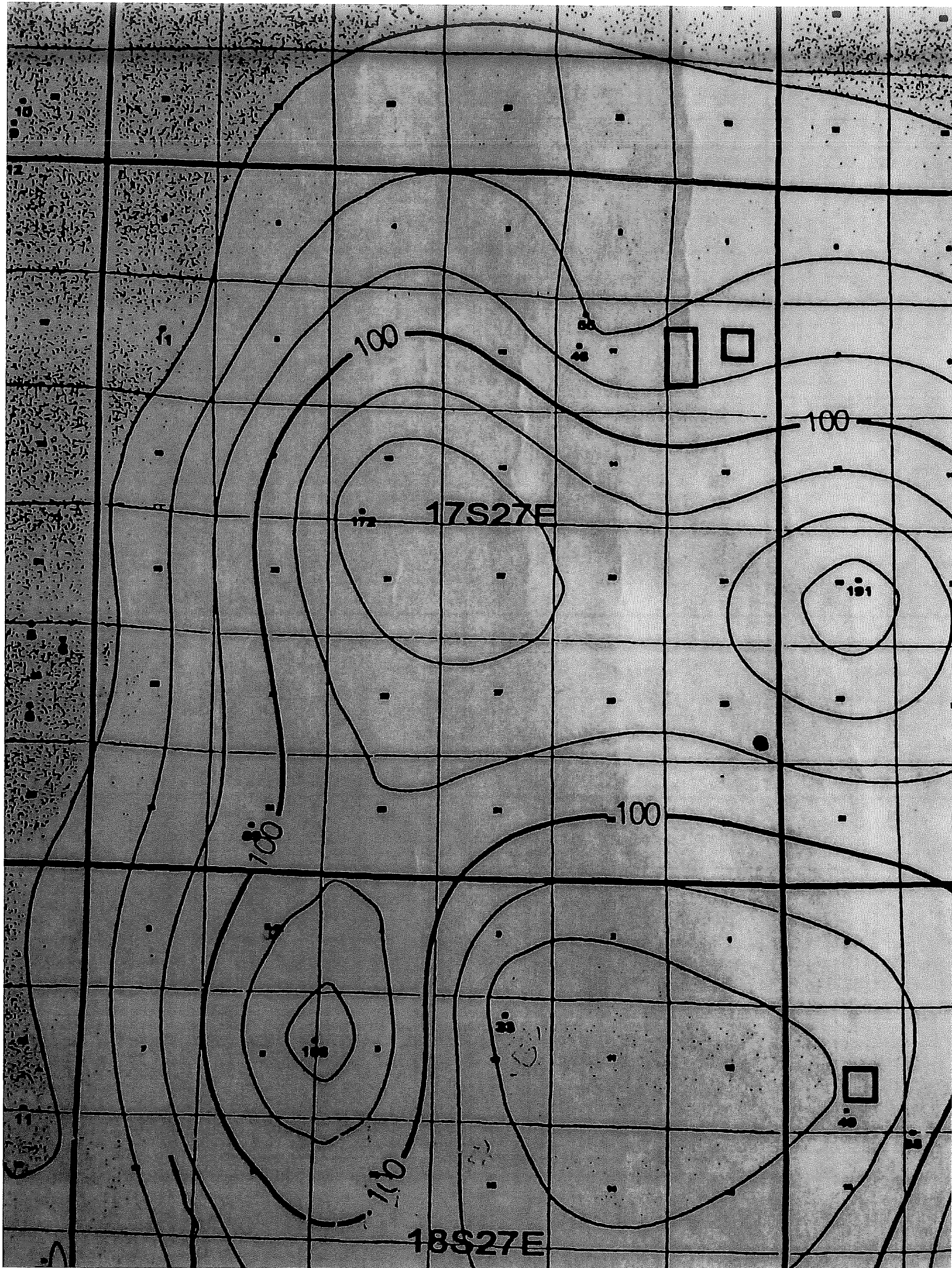
Legend
♦ - Sample Location



Date: 07/02/2015
Scale: 1" = 30'
Drawn By: TJS

Logan 35 Federal Battery
Lime Rock Resources
Eddy County, New Mexico
Figure 1 - Site Plan

GROUNDWATER DATA
INITIAL C-141



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : LIME ROCK RESOURCES II-A, LP	Contact : Mike Barrett
Address : 1111 Bagby Street Suite 4600, Houston ,TX 77002	Telephone No. : 575-623-8424
Facility Name: Logan 35 Tank Battery	Facility Type: Tank Battery

Surface Owner : BLM	Mineral Owner: BLM	API:30-015-30409
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LOCATION OF RELEASE

Unit Letter O	Section 35	Township 17S	Range 27E	Feet from the 990	North/South Line S	Feet from the 2100	East/West Line E	County Eddy
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Latitude 32.7860977 N Longitude -104.2476784 W

NATURE OF RELEASE

Type of Release : Mixed Fluids	Volume of Release : 805 bbls PW 15 bbls Oil (estimate)	Volume Recovered: 780bbls of fluid recovered
Source of Release : Transfer pump failure	Date and Hour of Occurrence: 6/28/2015 3:40 am	Date and Hour of Discovery: 6/28/2015 @ 3:40 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM/Jeffery Robertson -voicemail & OCD/Mike Bratcher - voicemail	
By Whom? David Adkins with Talon/LPE	Date and Hour : 6/28/2015 @ 10:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* **The #2 transfer pump failed resulting in the release of approximately 820bbls of mixed fluids. Upon discovery of the release, vacuum trucks were immediately dispatched to recover the standing fluid. Approximately 780bbls of fluid was recovered. The location was also scraped to remove the saturated caliche.**

Describe Area Affected and Cleanup Action Taken.* **The affected area included the bermed tank battery and the location. No fluids left the location. Talon/LPE mobilized personnel for emergency cleanup activities and soil sampling. Upon receipt of analytical results from the soil sampling event a work plan will be drafted and submitted to OCD and BLM for approval.**

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.

OIL CONSERVATION DIVISION

Signature: 

Printed Name: **Michael Barrett**

Approved by District Supervisor:

Title: **Production Supervisor**

Approval Date:

Expiration Date:

E-mail Address: **mbarrett@limerockresources.com**

Conditions of Approval:

Attached ☐

Date: **6/29/2015** Phone: **575-623-8424**

* Attach Additional Sheets If Necessary

LABORATORY RESULTS



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

July 01, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN 35 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/30/15 13:10.

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,

Celely 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: 06/30/2015
 Reported: 07/01/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

 Sampling Date: 06/29/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H501675-01)

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	06/30/2015	ND	2.10	105	2.00	0.0350	
Toluene*	<0.050	0.050	06/30/2015	ND	1.88	93.9	2.00	0.767	
Ethylbenzene*	<0.050	0.050	06/30/2015	ND	1.78	88.9	2.00	0.0876	
Total Xylenes*	<0.150	0.150	06/30/2015	ND	5.25	87.5	6.00	0.176	
Total BTEX	<0.300	0.300	06/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 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	9600	16.0	07/01/2015	ND	416	104	400	7.41	

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	06/30/2015	ND	168	84.1	200	4.09		
DRO >C10-C28	<10.0	10.0	06/30/2015	ND	194	97.1	200	6.39		

Surrogate: 1-Chlorooctane 98.2 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

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: 06/30/2015
 Reported: 07/01/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

 Sampling Date: 06/29/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 1' (H501675-02)

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	06/30/2015	ND	2.10	105	2.00	0.0350	
Toluene*	<0.050	0.050	06/30/2015	ND	1.88	93.9	2.00	0.767	
Ethylbenzene*	<0.050	0.050	06/30/2015	ND	1.78	88.9	2.00	0.0876	
Total Xylenes*	<0.150	0.150	06/30/2015	ND	5.25	87.5	6.00	0.176	
Total BTEX	<0.300	0.300	06/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	1310	16.0	07/01/2015	ND	416	104	400	7.41	

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	06/30/2015	ND	168	84.1	200	4.09	
DRO >C10-C28	<10.0	10.0	06/30/2015	ND	194	97.1	200	6.39	

Surrogate: 1-Chlorooctane 103 % 47.2-157

Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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Analytical Results For:

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

 Received: 06/30/2015
 Reported: 07/01/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

 Sampling Date: 06/29/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 2' (H501675-03)

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	06/30/2015	ND	2.10	105	2.00	0.0350	
Toluene*	<0.050	0.050	06/30/2015	ND	1.88	93.9	2.00	0.767	
Ethylbenzene*	<0.050	0.050	06/30/2015	ND	1.78	88.9	2.00	0.0876	
Total Xylenes*	<0.150	0.150	06/30/2015	ND	5.25	87.5	6.00	0.176	
Total BTEX	<0.300	0.300	06/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 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	624	16.0	07/01/2015	ND	416	104	400	7.41	

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	06/30/2015	ND	168	84.1	200	4.09	
DRO >C10-C28	<10.0	10.0	06/30/2015	ND	194	97.1	200	6.39	

Surrogate: 1-Chlorooctane 105 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

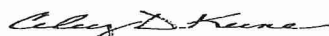
Sample ID: S-1 3' (H501675-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/01/2015	ND	416	104	400	7.41	

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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: 06/30/2015
 Reported: 07/01/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

 Sampling Date: 06/29/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 4' (H501675-05)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/01/2015	ND	416	104	400	7.41	

Sample ID: S-2 0' (H501675-06)

BTEX 8021B			mg/kg Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.102	0.050	06/30/2015	ND	2.10	105	2.00	0.0350	
Toluene*	1.40	0.050	06/30/2015	ND	1.88	93.9	2.00	0.767	
Ethylbenzene*	2.39	0.050	06/30/2015	ND	1.78	88.9	2.00	0.0876	
Total Xylenes*	5.13	0.150	06/30/2015	ND	5.25	87.5	6.00	0.176	
Total BTEX	9.02	0.300	06/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 123 % 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	13700	16.0	07/01/2015	ND	416	104	400	7.41	

TPH 8015M			mg/kg Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	74.8	50.0	06/30/2015	ND	168	84.1	200	4.09	
DRO >C10-C28	2340	50.0	06/30/2015	ND	194	97.1	200	6.39	

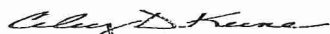
Surrogate: 1-Chlorooctane 114 % 47.2-157

Surrogate: 1-Chlorooctadecane 157 % 52.1-176

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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: 06/30/2015
 Reported: 07/01/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

 Sampling Date: 06/29/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 1' (H501675-07)

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	06/30/2015	ND	2.10	105	2.00	0.0350		
Toluene*	<0.050	0.050	06/30/2015	ND	1.88	93.9	2.00	0.767		
Ethylbenzene*	<0.050	0.050	06/30/2015	ND	1.78	88.9	2.00	0.0876		
Total Xylenes*	<0.150	0.150	06/30/2015	ND	5.25	87.5	6.00	0.176		
Total BTEX	<0.300	0.300	06/30/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	288	16.0	07/01/2015	ND	416	104	400	7.41		

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	06/30/2015	ND	168	84.1	200	4.09		
DRO >C10-C28	<10.0	10.0	06/30/2015	ND	194	97.1	200	6.39		

Surrogate: 1-Chlorooctane 109 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

Cardinal Laboratories

* = Accredited Analyte

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

 Received: 06/30/2015
 Reported: 07/01/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

 Sampling Date: 06/29/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 2' (H501675-08)

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	06/30/2015	ND	2.10	105	2.00	0.0350	
Toluene*	<0.050	0.050	06/30/2015	ND	1.88	93.9	2.00	0.767	
Ethylbenzene*	<0.050	0.050	06/30/2015	ND	1.78	88.9	2.00	0.0876	
Total Xylenes*	<0.150	0.150	06/30/2015	ND	5.25	87.5	6.00	0.176	
Total BTEX	<0.300	0.300	06/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	1640	16.0	07/01/2015	ND	416	104	400	7.41	

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	06/30/2015	ND	168	84.1	200	4.09	
DRO >C10-C28	<10.0	10.0	06/30/2015	ND	194	97.1	200	6.39	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 123 % 52.1-176

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: 06/30/2015
Reported: 07/01/2015
Project Name: LOGAN 35 BATTERY
Project Number: 70130707901
Project Location: EDDY

Sampling Date: 06/29/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 3' (H501675-09)

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	06/30/2015	ND	2.10	105	2.00	0.0350	
Toluene*	<0.050	0.050	06/30/2015	ND	1.88	93.9	2.00	0.767	
Ethylbenzene*	<0.050	0.050	06/30/2015	ND	1.78	88.9	2.00	0.0876	
Total Xylenes*	<0.150	0.150	06/30/2015	ND	5.25	87.5	6.00	0.176	
Total BTX	<0.300	0.300	06/30/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	07/01/2015	ND	416	104	400	7.41	

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	06/30/2015	ND	168	84.1	200	4.09	
DRO >C10-C28	<10.0	10.0	06/30/2015	ND	194	97.1	200	6.39	

Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 116 % 52.1-176

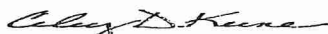
Sample ID: S-2 4' (H501675-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	07/01/2015	ND	416	104	400	7.41	

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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: 06/30/2015
 Reported: 07/01/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

Sampling Date: 06/29/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 5' (H501675-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	07/01/2015	ND	416	104	400	7.41	

Sample ID: S-2 6' (H501675-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	07/01/2015	ND	416	104	400	7.41		

Sample ID: S-2 7' (H501675-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	07/01/2015	ND	416	104	400	7.41		

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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

BILL TO

ANALYSIS REQUEST

Company Name:	Talon/Spec	P.O. #:	
Project Manager:	D. Adkins	Company:	Talon/Spec
Address:	408 W. Texas Ave	Attn:	
City:	Artesia	State:	NM Zip: 88210
Phone #:	575-746-8268	Fax #:	
Project #:	70130707901	Project Owner:	Line Rock
Project Name:	Legion 35 Battery	City:	
Project Location:	Edley C. Baerz	State:	
Sampler Name:		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			OTHER:	ACID/BASE:	ICE / COOL	OTHER:		
H501675	5-1 0-	X	1	X					6/29/15	10:32	Total Chlorides					
1	5-1 1-	X	1	X					10:38	10:38	BTEX					
2	5-1 2-	X	1	X					10:43	10:43	TPH					
3	5-1 3-	X	1	X					10:47	10:47						
4	5-1 4-	X	1	X					10:51	10:51						
5	5-2 0-	X	1	X					3:35	3:35						
6	5-2 1-	X	1	X					3:33	3:33						
7	5-2 2-	X	1	X					3:36	3:36						
8	5-2 3-	X	1	X					3:39	3:39						
9	5-2 4-	X	1	X					3:41	3:41						

PLEASE NOTE: Liability and damage. Cardinal's liability and damage exclusion remedy for any claim arising whether stated in contract or not shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal. Cardinal's liability shall be limited to the amount paid by the client for the analyses.

Relinquished By:	Date:	Received By:
	6/29/15	408 W. Texas Ave

Relinquished By:	Date:	Received By:
	6/29/15	408 W. Texas Ave

Relinquished By:	Date:	Received By:
	6/29/15	408 W. Texas Ave

Relinquished By:	Date:	Received By:
	6/29/15	408 W. Texas Ave

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	6/29/15	408 W. Texas Ave

Relinquished By:	Date:	Received By:
	6/29/15	408 W. Texas Ave

Relinquished By:	Date:	Received By:
	6/29/15	408 W. Texas Ave

Relinquished By:	Date:	Received By:
	6/29/15	408 W. Texas Ave

Relinquished By:	Date:	Received By:
	6/29/15	408 W. Texas Ave

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
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Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:

Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:



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

July 02, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN 35 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 07/01/15 13:43.

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: 07/01/2015
 Reported: 07/02/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

 Sampling Date: 06/30/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S-3 0' (H501691-01)

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	07/01/2015	ND	2.35	117	2.00	0.0451	
Toluene*	<0.050	0.050	07/01/2015	ND	2.11	105	2.00	1.66	
Ethylbenzene*	<0.050	0.050	07/01/2015	ND	2.04	102	2.00	2.15	
Total Xylenes*	<0.150	0.150	07/01/2015	ND	6.07	101	6.00	2.23	
Total BTX	<0.300	0.300	07/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	10100	16.0	07/02/2015	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	07/01/2015	ND	161	80.6	200	3.50	
DRO >C10-C28	<10.0	10.0	07/01/2015	ND	177	88.6	200	8.99	


Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 125 % 52.1-176

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: 07/01/2015
 Reported: 07/02/2015
 Project Name: LOGAN 35 BATTERY
 Project Number: 70130707901
 Project Location: EDDY

 Sampling Date: 06/30/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: S-3 1' (H501691-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/01/2015	ND	2.35	117	2.00	0.0451	
Toluene*	<0.050	0.050	07/01/2015	ND	2.11	105	2.00	1.66	
Ethylbenzene*	<0.050	0.050	07/01/2015	ND	2.04	102	2.00	2.15	
Total Xylenes*	<0.150	0.150	07/01/2015	ND	6.07	101	6.00	2.23	
Total BTX	<0.300	0.300	07/01/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 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	416	16.0	07/02/2015	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	07/01/2015	ND	161	80.6	200	3.50	
DRO >C10-C28	<10.0	10.0	07/01/2015	ND	177	88.6	200	8.99	

Surrogate: 1-Chlorooctane 106 % 47.2-157

Surrogate: 1-Chlorooctadecane 124 % 52.1-176

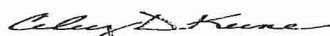
Sample ID: S-3 2' (H501691-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	07/02/2015	ND	432	108	400	3.77	

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: 07/01/2015
Reported: 07/02/2015
Project Name: LOGAN 35 BATTERY
Project Number: 70130707901
Project Location: EDDY

Sampling Date: 06/30/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: S-3 3' REFUSAL (H501691-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	07/02/2015	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager

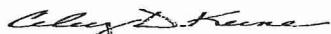
Notes and Definitions

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

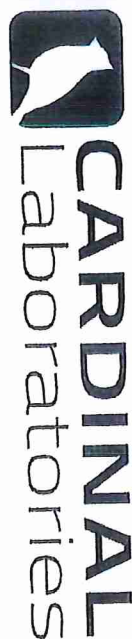
Cardinal Laboratories

*=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

BIENITO

ANALYSIS REQUEST

Company Name: Talon/LE

Project Manager: R. Adkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 201307070.01

Project Name: Logansberry

Project Location: Logansberry

Sample Name: G. Bacteria

FOR LAB USE ONLY

P.O. #:

Company: Talon

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

MATRIX

PRESERV.

SAMPLING

Lab I.D.

Sample I.D.

H501691

5-30'
5-31'
5-32'
5-33' re-fused

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

TPH

BTEX

Chlorides

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Relinquished By:

Date: 7/14/15

Received By:

Sheldon Per

Relinquished By:

Date: 7/14/15

Received By:

Sheldon Per

Delivered By: (Circle One)

Date: 7/14/15

Received By:

Sheldon Per

Sampler - UPS - Bus - Other:

Date: 7/14/15

Received By:

Sheldon Per

Sample Condition

Checked By: (Initials)

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Remarks: Rush!!

Phone Result:

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Phone Result:

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

Yes

No

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