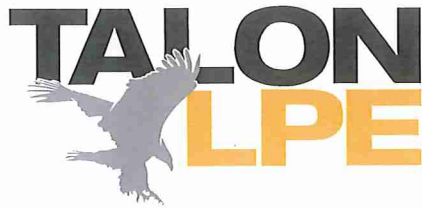


talonlpe.com • 866.742.0742



Soil Assessment and Remediation Work Plan:

West Red Lake Unit #25

API # 30-015-00819 – **2RP-4315-0**

Talon Project No. 701307.100.01

Prepared For:

Lime Rock Resources II-A, L.P.

1111 Bagby Street Suite 4600

Houston, TX 77002

Prepared By:

TALON/LPE

408 W. Texas Avenue

Artesia, New Mexico 88210

October 26, 2017

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

Subject: **Soil Assessment and Remediation Work Plan**
 West Red Lake Unit #25
 API # 30-015-00819 – 2RP-4315-0

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.

Site Information

The Lime Rock West Red Lake Unit 25 is located approximately ten (10) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter A, Section 8, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.7692610695 North and -104.295245609 West. A site plan is presented in [Appendix I](#).

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 weathered Gypsum. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations which include silty soils under lain by gypsum and hard caliches. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water is 140' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **0** based on the following:

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

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 600 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On June 28, 2017, a nipple on the filter pot failed due to corrosion resulting in the loss of approximately 330 barrels of produced water onto the location. All fluids were contained on the pad. A vac truck was called to the location and recovered 300 barrels of fluid. Talon mobilized personnel to perform an initial site assessment and collect soil samples from the impacted area. A site plan is presented in [Appendix I](#) which illustrates the impacted area.

On June 28, 2017, Talon 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 where refusal was encountered as noted below in [Lab Data Table](#).

On September 8, 2017, Talon personnel and equipment returned to the site to perform further vertical delineation sampling utilizing a backhoe where refusal was encountered once again. The analytical results are presented below in [Lab Data Table](#).

On September 21, 2017, an air rotary drill rig was mobilized for complete vertical delineation of the impacted area. The analytical results are presented below in [Lab Data Table](#).

Laboratory Results

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

[Lab Data Table](#)

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0.0	ND	16400	ND	21.2
Auger Refusal	1.0	ND	544	ND	ND
	2.0	--	480	--	--
Backhoe Refusal	3.0	--	384	--	--
BH-1	5.0	--	896	--	--
	7.0	--	592	--	--
	9.0	--	208	--	--
	11.0	--	704	--	--
	15.0	--	720	--	--
	20.0	--	176	--	--
	25.0	--	80	--	--
S-2	0.0	19.4	26000	19	14.3
Auger Refusal	1.0	ND	10400	ND	ND
	2.0	--	1360	--	--
	3.0	--	512	--	--
Backhoe Refusal	4.0	--	176	--	--

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
BH-2	5.0	--	576	--	--
	7.0	--	272	--	--
	9.0	--	160	--	--
	11.0	--	224	--	--
	15.0	--	80	--	--
S-3	0.0	9.95	23600	11.8	ND
Auger Refusal	0.5	ND	12000	ND	ND
	1.0	--	864	--	--
	2.0	--	688	--	--
	3.0	--	464	--	--
Backhoe Refusal	4.0	--	1300	--	--
BH-3	5.0	--	2000	--	--
	7.0	--	1260	--	--
	9.0	--	1760	--	--
	11.0	--	2400	--	--
	15.0	--	1520	--	--
	20.0	--	128	--	--
	25.0	--	336	--	--
	30.0	--	80	--	--
S-4	0.0	2.21	28000	ND	ND
Auger Refusal	0.5	ND	5120	ND	ND
	2.0	--	480	--	--
Backhoe Refusal	3.0	--	512	--	--
S-5	0.0	--	<16	--	--
S-6	0.0	--	160	--	--
S-7	0.0	--	32	--	--
S-8	0.0	--	<16	--	--

--Analyte Not Tested

Proposed Remedial Actions

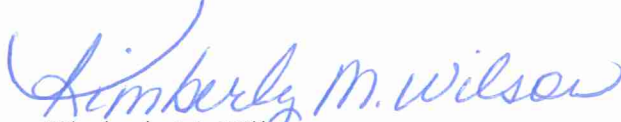
- Please note that the impacted area is vertically and horizontally delineated.
- The impacted soil at S-1, S-2, S-3, and S-4 will be excavated to a depth of 2.0-feet deep. This represents the entire location within the berms.
- A 20 millimeter liner will be installed in the bottom of the excavation.
- All contaminated soil will be transported to Lea Land, LLC, a NMOCD approved disposal facility.

- The excavated area will be backfilled with new caliche. Once the backfilling activities are complete the work area will be contoured to match the surrounding location.
- A final closure report documenting all remedial actions will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

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



Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

Attachments:

- Appendix I Site Plan
- Appendix II Groundwater Data & Initial C-141
- Appendix III Laboratory Results

APPENDIX I
SITE MAP

West Red Lake #25



- Legend**
- #25
 - Bore Hole Samples
 - Impacted Area
 - Outside Sample Points
 - Sample Points

APPENDIX II
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

NM OIL CONSERVATION
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

ARTESIA DISTRICT

JUL 28 2017

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

Form C-141
Revised April 3, 2017

RECEIVED

Release Notification and Corrective Action

NAB1721457413

277558

OPERATOR

☒ Initial Report ☐ Final Report

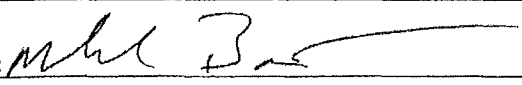
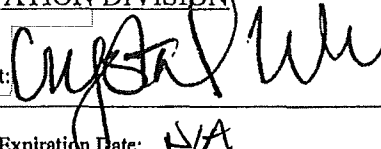
Name of Company LIME ROCK RESOURCES II-A, L.P.	Contact Mike Barrett	
Address 1111 Bagby Street Suite 4600, Houston, TX 77002	Telephone No. 575-365-9724	
Facility Name WEST RED LAKE UNIT #25	Facility Type Injection Well	
Surface Owner BLM	Mineral Owner Federal	API No. 30-015-00819

LOCATION OF RELEASE

Unit Letter A	Section 8	Township 18S	Range 27E	Feet from the 121	North/South Line North	Feet from the 1003	East/West Line East	County Eddy
------------------	--------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.7691574 Longitude -104.2951431 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 330bbls	Volume Recovered 300bbls
Source of Release Failed Nipple	Date and Hour of Occurrence June 28, 2017 @ 10:00am	Date and Hour of Discovery June 28, 2017 @ 10:30am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NMOCD Shelly Tucker-BLM	
By Whom? Sheldon Hitchcock-Talon/LPE	Date and Hour June 28, 2017 5:22pm	
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.* A nipple on the filter pot failed due to corrosion resulting in the loss of approximately 330bbls of produced water. The nipple was replaced and the well was put back into service.		
Describe Area Affected and Cleanup Action Taken.* All of the fluid remained within the berms of the location. Vacuum trucks were utilized to recover approximately 300bbls of standing fluid. A remediation work plan will be developed and submitted to NMOCD and BLM for review.		
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: Mike Barrett	Approved by Environmental Specialist: 	
Title: Production Superintendent	Approval Date: 8/2/17	Expiration Date: N/A
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval: see attached	Attached <input checked="" type="checkbox"/>
Date: 7/26/2017	Phone: 575-365-9724	

* Attach Additional Sheets If Necessary

2RP-4315



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

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

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 03714		CH		4	4	2	08	18S	27E	566212	3625253*	600	381		
RA 03661		ED		3	2	3	32	17S	27E	565186	3628038*	2413	330	140	190
RA 03664		CH		3	2	3	32	17S	27E	565186	3628038*	2413	400	100	300

Average Depth to Water: 120 feet

Minimum Depth: 100 feet

Maximum Depth: 140 feet

Record Count:3

UTMNAD83 Radius Search (in meters):

Easting (X): 566211

Northing (Y): 3625853

Radius: 2500

*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.

10/18/17 3:51 PM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

APPENDIX III
LABORATORY RESULTS

July 05, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE #25

Enclosed are the results of analyses for samples received by the laboratory on 06/29/17 11:13.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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
 SHELDON HITCHCOCK
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 06/29/2017
 Reported: 07/05/2017
 Project Name: WEST RED LAKE #25
 Project Number: LIME ROCK
 Project Location: 8- T185-R27B

 Sampling Date: 06/28/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H701711-01)

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	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	0.053	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 101 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	06/30/2017	ND	464	116	400	7.14	

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	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	21.2	10.0	06/30/2017	ND	208	104	200	2.05	

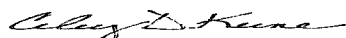
Surrogate: 1-Chlorooctane 99.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 06/29/2017
 Reported: 07/05/2017
 Project Name: WEST RED LAKE #25
 Project Number: LIME ROCK
 Project Location: 8- T185-R27B

 Sampling Date: 06/28/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 1' (H701711-02)

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	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 101 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	06/30/2017	ND	464	116	400	7.14	

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	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	

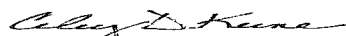
Surrogate: 1-Chlorooctane 98.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.6 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/29/2017
Reported: 07/05/2017
Project Name: WEST RED LAKE #25
Project Number: LIME ROCK
Project Location: 8- T185-R27B

Sampling Date: 06/28/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H701711-03)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.87	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	5.35	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	4.01	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	8.13	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	19.4	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PII) 111 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	06/30/2017	ND	464	116	400	7.14	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.0	10.0	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	14.3	10.0	06/30/2017	ND	208	104	200	2.05	

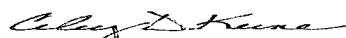
Surrogate: 1-Chlorooctane 93.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.7 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 06/29/2017
 Reported: 07/05/2017
 Project Name: WEST RED LAKE #25
 Project Number: LIME ROCK
 Project Location: 8- T185-R27B

 Sampling Date: 06/28/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 1' (H701711-04)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.6 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	06/30/2017	ND	464	116	400	7.14	

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	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	

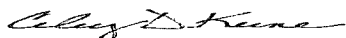
Surrogate: 1-Chlorooctane 99.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.5 % 34.7-157

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 06/29/2017
Reported: 07/05/2017
Project Name: WEST RED LAKE #25
Project Number: LIME ROCK
Project Location: 8- T185-R27B

Sampling Date: 06/28/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H701711-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.64	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	3.17	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	1.69	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	3.45	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTX	9.95	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	06/30/2017	ND	464	116	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.8	10.0	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	

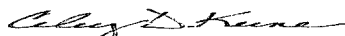
Surrogate: 1-Chlorooctane 97.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.5 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/29/2017
Reported: 07/05/2017
Project Name: WEST RED LAKE #25
Project Number: LIME ROCK
Project Location: 8- T185-R27B

Sampling Date: 06/28/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0.5' (H701711-06)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/30/2017	ND	2.03	101	2.00	1.74		
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08		
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26		
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866		
Total BTEx	<0.300	0.300	06/30/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	12000	16.0	06/30/2017	ND	448	112	400	3.51		

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	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	

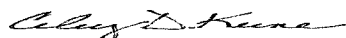
Surrogate: 1-Chlorooctane 97.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.9 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/29/2017
Reported: 07/05/2017
Project Name: WEST RED LAKE #25
Project Number: LIME ROCK
Project Location: 8- T185-R27B

Sampling Date: 06/28/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0' (H701711-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.420	0.050	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	0.650	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	0.363	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	0.774	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTX	2.21	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28000	16.0	06/30/2017	ND	448	112	400	3.51	

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	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	

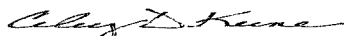
Surrogate: 1-Chlorooctane 100 % 28.3-164

Surrogate: 1-Chlorooctadecane 106 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 06/29/2017
Reported: 07/05/2017
Project Name: WEST RED LAKE #25
Project Number: LIME ROCK
Project Location: 8- T185-R27B

Sampling Date: 06/28/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0.5' (H701711-08)

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	06/30/2017	ND	2.03	101	2.00	1.74	
Toluene*	<0.050	0.050	06/30/2017	ND	1.95	97.5	2.00	2.08	
Ethylbenzene*	<0.050	0.050	06/30/2017	ND	2.13	106	2.00	1.26	
Total Xylenes*	<0.150	0.150	06/30/2017	ND	6.28	105	6.00	0.866	
Total BTEX	<0.300	0.300	06/30/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	06/30/2017	ND	448	112	400	3.51	

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	06/30/2017	ND	196	98.0	200	2.17	
DRO >C10-C28	<10.0	10.0	06/30/2017	ND	208	104	200	2.05	

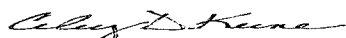
Surrogate: 1-Chlorooctane 102 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.7 % 34.7-157

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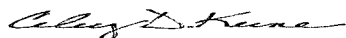
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

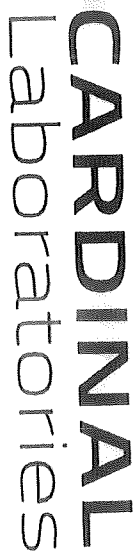
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

Page 11 of 11



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

September 13, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE #25

Enclosed are the results of analyses for samples received by the laboratory on 09/08/17 15:49.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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



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

Analytical Results For:

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

Received:	09/08/2017	Sampling Date:	09/08/2017
Reported:	09/13/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE #25	Sampling Condition:	** (See Notes)
Project Number:	701307.100.01	Sample Received By:	Jodi Henson
Project Location:	8- T18S-R27E		

Sample ID: S-1 2' (H702395-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/11/2017	ND	416	104	400	0.00	

Sample ID: S-1 3' (H702395-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/11/2017	ND	416	104	400	0.00	

Sample ID: S-2 2' (H702395-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	09/11/2017	ND	416	104	400	0.00	

Sample ID: S-2 3' (H702395-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/11/2017	ND	416	104	400	0.00	

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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: 09/08/2017
 Reported: 09/13/2017
 Project Name: WEST RED LAKE #25
 Project Number: 701307.100.01
 Project Location: 8- T18S-R27E

 Sampling Date: 09/08/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-2 4' (H702395-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/11/2017	ND	416	104	400	0.00	

Sample ID: S-3 1' (H702395-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	09/11/2017	ND	416	104	400	0.00	

Sample ID: S-3 2' (H702395-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	09/11/2017	ND	432	108	400	3.64	

Sample ID: S-3 3' (H702395-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	09/11/2017	ND	432	108	400	3.64	

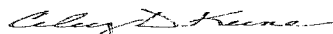
Sample ID: S-3 4' (H702395-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	09/11/2017	ND	432	108	400	3.64	

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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:	09/08/2017	Sampling Date:	09/08/2017
Reported:	09/13/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE #25	Sampling Condition:	** (See Notes)
Project Number:	701307.100.01	Sample Received By:	Jodi Henson
Project Location:	8- T18S-R27E		

Sample ID: S-4 2' (H702395-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/11/2017	ND	432	108	400	3.64	

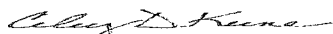
Sample ID: S-4 3' (H702395-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	09/11/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

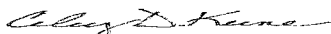
Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



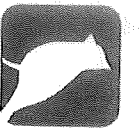
CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 1 of 2

Company Name: Talon/LPE		BILL TO		ANALYSIS REQUEST											
Project Manager: D. Adkins		P.O. #:													
Address: 408 W. Texas Ave.		Company: Talon/LPE													
City: Artesia		Attn:													
Phone #: 575-746-8768		Address:													
Fax #: 575-746-8905		City:													
Project #: 201307, 100, 01		State:													
Project Owner: Lime Rock		Zip:													
Project Location:		Phone #:													
Sampler Name: S. Hitchcock		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING						
		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chlorides		
4708395	5-12	G	1								9/8/17	10:00			
1	5-13	G	1								10:05	10:05			
2	5-22	G	1								10:15	10:15			
3	5-23	G	1								10:20	10:20			
4	5-24	G	1								10:25	10:25			
5	5-31	G	1								10:30	10:30			
6	5-32	G	1								10:35	10:35			
7	5-33	G	1								10:40	10:40			
8	5-34	G	1								10:45	10:45			
9	5-42	G	1								10:50	10:50			
10	5-42	G	1												
PLEASE NOTE: Liability and claims exclusive remedy for any claim arising from this contract or from shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.															
Relinquished By: <u>Shadyn Avila</u>		Date: <u>9/8/17</u>		Received By: <u>Shadyn Avila</u>		Date: <u>9/8/17</u>		Time: <u>12:00</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:					
Relinquished By: <u>Shadyn Avila</u>		Date: <u>9/8/17</u>		Received By: <u>Shadyn Avila</u>		Date: <u>9/8/17</u>		Time: <u>3:49</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:					
Delivered By: (Circle One) <u>Hand Delivered</u>		Time: <u>3:49</u>		Sample Condition: <u>Good</u>		Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Checked By: <u>HC</u>		REMARKS:					
Sampler - UPS - Bus - Other: <u>Hand Delivered</u>		Time: <u>3:49</u>		Sample Condition: <u>Good</u>		Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Checked By: <u>HC</u>		REMARKS:					



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 2 of 2

Company Name: Talon/LPE		BILL TO		ANALYSIS REQUEST																						
Project Manager: D. H. H. H.		P.O. #:																								
Address: 408 W. Texas Ave.		Company: Talon/LPE																								
City: Artesia		Attn:																								
Phone #: 575-746-8768		Address:																								
Fax #: 575-746-8905		City:																								
Project #: 2013071001		State: NM zip: 88210																								
Project Owner: Live Rock		Phone #:																								
Project Location:		Fax #:																								
Sample Name: S. H. H. H.		PRESERV.		SAMPLING																						
FOR LAB USE ONLY																										
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												
11	5-43'	G	1										9/8/17	11:00	Chlorides											
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Relinquished By: <i>David M. H. H.</i>		Date: 9/8/17		Received By: <i>David M. H. H.</i>		Date: 9/8/17		Time: 12:00		Sample Condition		CHECKED BY: <i>Halim B. H. H.</i>		REMARKS:												
Delivered By: (Circle One) <i>David M. H. H.</i>		Time: 3:49		Received By: <i>Halim B. H. H.</i>		Time: 3:49		Sample Condition		Cool Intact		Checked By: <i>Halim B. H. H.</i>		REMARKS:												
Sampler - UPS - Bus - Other: <i>27.9°C / 28.15°C</i>		No <input type="checkbox"/> Yes <input type="checkbox"/>		No <input type="checkbox"/> Yes <input type="checkbox"/>		No <input type="checkbox"/> Yes <input type="checkbox"/>		No <input type="checkbox"/> Yes <input type="checkbox"/>		No <input type="checkbox"/> Yes <input type="checkbox"/>		No <input type="checkbox"/> Yes <input type="checkbox"/>		No <input type="checkbox"/> Yes <input type="checkbox"/>												

October 27, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE #25

Enclosed are the results of analyses for samples received by the laboratory on 09/26/17 10:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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:	09/26/2017	Sampling Date:	09/21/2017
Reported:	10/27/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE #25	Sampling Condition:	** (See Notes)
Project Number:	701307.100.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO/ 8- T18S-R27E		

Sample ID: BH -1 5' (H702615-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	09/27/2017	ND	416	104	400	7.41	

Sample ID: BH -1 7' (H702615-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/27/2017	ND	416	104	400	7.41	

Sample ID: BH -1 9' (H702615-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	09/27/2017	ND	416	104	400	7.41	

Sample ID: BH -1 11' (H702615-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	09/27/2017	ND	416	104	400	7.41	

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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:	09/26/2017	Sampling Date:	09/21/2017
Reported:	10/27/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE #25	Sampling Condition:	** (See Notes)
Project Number:	701307.100.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO/ 8- T18S-R27E		

Sample ID: BH -1 15' (H702615-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	09/27/2017	ND	416	104	400	7.41		

Sample ID: BH -1 20' (H702615-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	09/27/2017	ND	416	104	400	7.41		

Sample ID: BH -1 25' (H702615-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/27/2017	ND	416	104	400	7.41		

Sample ID: BH -2 5' (H702615-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	09/27/2017	ND	416	104	400	7.41		

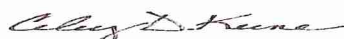
Sample ID: BH -2 7' (H702615-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	09/27/2017	ND	416	104	400	7.41		

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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:	09/26/2017	Sampling Date:	09/21/2017
Reported:	10/27/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE #25	Sampling Condition:	** (See Notes)
Project Number:	701307.100.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO/ 8- T18S-R27E		

Sample ID: BH -2 9' (H702615-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	09/27/2017	ND	416	104	400	7.41		

Sample ID: BH -2 11' (H702615-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/27/2017	ND	416	104	400	7.41		

Sample ID: BH -2 15' (H702615-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	09/27/2017	ND	416	104	400	7.41		

Sample ID: BH -3 5' (H702615-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	09/27/2017	ND	416	104	400	7.41		

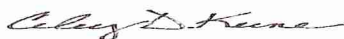
Sample ID: BH -3 7' (H702615-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1260	16.0	09/27/2017	ND	416	104	400	7.41		

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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:	09/26/2017	Sampling Date:	09/21/2017
Reported:	10/27/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE #25	Sampling Condition:	** (See Notes)
Project Number:	701307.100.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO/ 8- T18S-R27E		

Sample ID: BH -3 9' (H702615-15)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	09/27/2017	ND	416	104	400	7.41	

Sample ID: BH -3 11' (H702615-16)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	09/27/2017	ND	416	104	400	7.41	

Sample ID: BH -3 15' (H702615-17)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	09/27/2017	ND	416	104	400	7.41	

Sample ID: S -5 0' (H702615-18)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2017	ND	416	104	400	7.41	

Sample ID: S -6 0' (H702615-19)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/27/2017	ND	416	104	400	7.41	

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Celest 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:	09/26/2017	Sampling Date:	09/22/2017
Reported:	10/27/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE #25	Sampling Condition:	** (See Notes)
Project Number:	701307.100.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO/ 8- T18S-R27E		

Sample ID: S -7 0' (H702615-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/27/2017	ND	416	104	400	7.41	QR-05

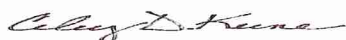
Sample ID: S -8 0' (H702615-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/27/2017	ND	416	104	400	7.41	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

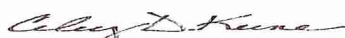
Notes and Definitions

QR-05	The RPD exceeded historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

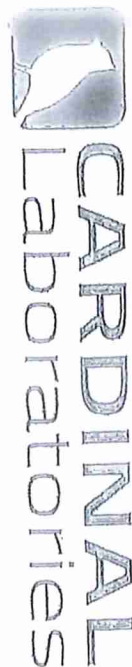
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Celey D. Keene, Lab Director/Quality Manager



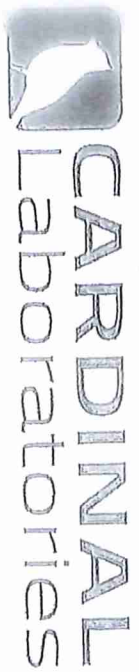
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10/23

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

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #:	
Project Manager: David Perkins		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia		Address:	
Phone #: 575-746-8768		City:	
Fax #: 575-746-8905		State:	
Project #: 701307.100.01		Zip:	
Project Name: West Red Lake # 25		Project Owner: Line Rock	
Project Location: Eddy City		Phone #:	
Sample Name: Kim 11/15/07		Fax #:	
FOR LAB USE ONLY		PRESERV. SAMPLING	
Lab I.D. *	Sample I.D. *	(S)RAB OR (C)OMP.	
H102615 BH	1 5'	# CONTAINERS	
2 1'	2 7'	GROUNDWATER	
3 1'	3 9'	WASTEWATER	
4 1'	4 11'	SOIL	
5 1'	5 15'	OIL	
6 1'	6 20'	SLUDGE	
7 1'	7 25'	OTHER:	
8 1'	8 30'	ACID/BASE:	
9 1'	9 35'	ICE/COOL:	
10 1'	10 40'	OTHER:	
		DATE	TIME
		9/11/07	10:10
PLEASE NOTE: Lab and Storage Containers are property and should be returned to the lab. In contract for use, must be used in the manner and for the purpose for which they were designed. All claims, including those for negligence and any other claims whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 days after completion of the applicable analysis. In the event that Cardinal is held liable for negligent damage, including without limitation, business interruption, loss of use, or loss of profits incurred by client, the client shall be responsible for the payment of such damages. All claims shall be subject to the terms and conditions of the Chain of Custody and Analysis Request form.		REMARKS:	
Relinquished By: Kim 11/15/07		Received By: Kim 11/15/07	
Relinquished By: Kim 11/15/07		Received By: Kim 11/15/07	
Delivered By: (Circle One) 31.62		Sample Condition	
Sample - UPS - Bus - Other: collected 31.85		Cool Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	
		CHECKED BY: 70-475	
		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
		Add'l Phone #:	
		Add'l Fax #:	
		* Sample ID revised as per Kimberly. All changed to BH instead of S.	
		10/10/17	



Page 2 of 3

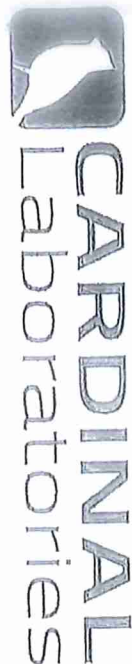
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/PE		P.O. #:	
Project Manager: <u>Paul Atkins</u>		Company: Talon/PE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia		State: NM Zip: 88210	
Phone #: 575-746-8768		Fax #: 575-746-8905	
Project #: 701307.100.01		Project Owner: <u>Line Rock</u>	
Project Name: <u>Best Red Lake #25</u>		State: Zip:	
Project Location: <u>Eddy City</u>		Phone #:	
Sample Name: <u>Jim Wilson</u>		Fax #:	
FOR LAB USE ONLY		PRESERV.	
Lab I.D. *		Sample I.D. *	
H102615 BH		9/21/17	
11 5-2 11'		9/21/17	
12 5-2 15'		9/21/17	
13 5-3 5'		9/21/17	
14 5-3 7'		9/21/17	
15 5-3 9'		9/21/17	
16 5-3 11'		9/21/17	
17 5-3 15'		9/21/17	
18 5-5 0'		9/21/17	
19 5-6 0'		9/21/17	
20 5-7 0'		9/21/17	
(G)RAB OR (C)OMP.		DATE	
# CONTAINERS		TIME	
GROUNDWATER			
WASTEWATER			
SOIL			
OIL			
SLUDGE			
OTHER:			
ACID/BASE:			
ICE/COOL			
OTHER:			
SAMPLING			
Sample Condition		CHECKED BY:	
Cool Intact		(Initials)	
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		70. #15	
Relinquished By: <u>Jim Wilson</u>		Received By: <u>Paul Atkins</u>	
Date: 9/26/17		Date: 9/26/17	
Time: 10:10		Time: 10:10	
Relinquished By: <u>Paul Atkins</u>		Received By: <u>Paul Atkins</u>	
Date: 9/26/17		Date: 9/26/17	
Time: 10:10		Time: 10:10	
Delivered By: (Circle One) <u>21.62</u>		Sample Condition	
Sampler - UPS - Bus - Other: <u>Constructed 21.852</u>		Cool Intact	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		70. #15	
Remarks: <u>** Revised as per kmr. Ch 10/26/17</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:	
		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:	

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



Page 3 of 3

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST																																							
Project Manager: David Perkins		Company: Talon/LPE																																									
Address: 408 W. Texas Ave.		Attn:																																									
City: Artesia		State: NM Zip: 88210																																									
Phone #: 575-746-8768		Fax #: 575-746-8905																																									
Project #: 701307. 100.01		Project Owner: Line Rock																																									
Project Name: West Red Lake #35		City:																																									
Project Location: Eddy City		State:																																									
Sample Name: Kim Wilcox		Phone #:																																									
FOR LAB USE ONLY		Fax #:																																									
Lab I.D.		Sample I.D.		MATRIX		PRESERV.		SAMPLING																																			
H702415		* 8-0' S-8**		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE/COOL		OTHER:		DATE		TIME															
21		8-0'		S-8**		G		1																		1/9/2017				Chlorides													
Relinquished By: Kim Wilcox		Date: 8-17		Time: 10:10		Received By: Kim Wilcox		Date: 8-17		Time: 10:10		Sample Condition		Cool		Intact		Yes		No		Checked By: (Initials)		10-17		Phone Result		Fax Result		Add'l Phone #:		Add'l Fax #:		REMARKS: ** Revised as per Kimberly. OK 10/26/17									
Delivered By: (Circle One)		Sampler - UPS		Bus		Other:		Sample Condition		Cool		Intact		Yes		No		Checked By: (Initials)		10-17		Phone Result		Fax Result		Add'l Phone #:		Add'l Fax #:															

October 27, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE #25

Enclosed are the results of analyses for samples received by the laboratory on 10/04/17 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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:	10/04/2017	Sampling Date:	09/21/2017
Reported:	10/27/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE #25	Sampling Condition:	Cool & Intact
Project Number:	701307.100.01	Sample Received By:	Tamara Oldaker
Project Location:	LIME ROCK - EDDY CO/ 8- T18S-R27E		

Sample ID: BH -3 20' (H702692-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/05/2017	ND	416	104	400	3.77	

Sample ID: BH -3 25' (H702692-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	10/05/2017	ND	416	104	400	3.77		

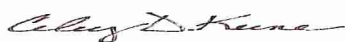
Sample ID: BH -3 30' (H702692-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/05/2017	ND	416	104	400	3.77	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

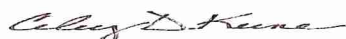
Notes and Definitions

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

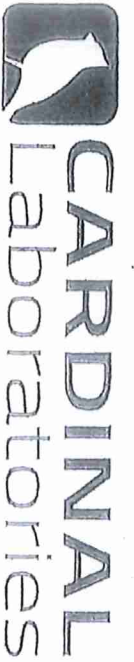
Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: Kimberly Wiliserson

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 701307100.01

Project Owner: Line Rock

Project Name: 11 Bad Lake #25

State: Zip:

Project Location: 11 Bad Lake #25

Phone #: Zip:

Sampler Name: Kim Wiliserson

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H702692 BH

1 8.3 20'
2 8.3 25'
3 8.3 30'
BH

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER:
ACID/BASE:
ICE / COOL
OTHER:

MATRIX

PRESERV

SAMPLING

DATE TIME

9/21/17

Chloride

ANALYSIS REQUEST

21.25% NOTE: Liability and damages, Cardinal's liability and claims exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other causes whatsoever shall be deemed waived unless made in writing and received by Cardinal within 90 days after completion of the applicable service. In the event that Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, be substituted, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 10/4/17

Received By:

Relinquished By:

Date: 10/4/17

Received By:

Delivered By: (Circle) UPS

Date: 10/4/17

Received By:

Sampler - UPS - Bus - Other:

Date: 10/4/17

Received By:

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (initials)

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

REMARKS:

10/26: Kimberly changed sample point names. *KA*

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