

RECEIVED

By JKeyes at 12:53 pm, Jun 08, 2016

APPROVED

Confirmation sample at S3.
Sidewall samples required.

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Work Plan

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

North Vacuum Abo North Unit (NVANU) #82 Battery

June 6, 2016

Prepared By:

Kimberly M. Wilson
TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Lime Rock Resources II-A, L.P.

Mr. Jamie Keyes
NMOCD District 1
1625 N. French Dr.
Hobbs, NM 88240

Subject: **Soil Assessment and Remediation Work Plan**
Lime Rock Resources II-A, L.P.
North Vacuum Abo North Unit (NVANU) #82 Battery
API # 30-025-32693

Dear Mr. Keyes,

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

Site Information

The NVANU #82 Battery is located approximately fifteen (15) miles west of Lovington, New Mexico. The legal location for this release is Unit Letter P, Section 2, Township 17 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.857914 North and -103.5242233 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 Kimbrough-Lea land complex. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of calcareous-loamy alluvium and calcareous-loamy eolian sands which includes silty soils underlain by sedimentary rock and hard caliche. 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 data to be in S10-T17S-R34E. The ground water in Section 10 is reported to be at depth of 92' below ground surface (bgs). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **10** based on the following:

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

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On March 15, 2016 Talon personnel met with Amber Groves from the New Mexico State Land Office (NMSLO) and Eddie Elliott with Lime Rock Resources at the NVANU #82 (historic) battery to discuss the concerns of the State Land Office. A site assessment and soil sampling activities for the construction of a work plan was performed. During our site assessment no obvious noxious or undesirable weeds such as African rue, Russian thistle, etc. were noted. Grab soil samples were collected utilizing a hand auger to a depth of 0.5' below ground surface where refusal was encountered.

On April 5, 2015 Talon personnel returned to the site to obtain deeper vertical delineation samples utilizing a backhoe to a total depth of 2-feet below ground surface where hard rock refusal was encountered.

An air rotary drill rig was then mobilized for further vertical delineation of the impacted area. Vertical delineation sampling was carried out April 12, 2016. Laboratory results are presented below.

Laboratory Results

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

March 24, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	1550	<50	<50
Refusal	0.5'	<0.300	1490	<50	68.2
S-2	0'	<0.300	4560	23.0	207
Refusal	0.5'	<0.300	2760	<10	379
S-3 Refusal	0'	<0.300	112	<200	22200

April 13, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1'	<0.300	2240	<10	<10
Refusal	2'	<0.300	880	<10	<10
S-2	1'	0.882	7360	<10	300
Refusal	2'	3.48	5040	52.2	2730
S-3 Refusal	1'	287	80	708	1960
S-4	0.25'	0.758	3280	<10	10.9

April 20, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
B-1 / S-1	5'	--	1730	--	--
	10'	--	1840	--	--
	15'	--	1380	--	--
	20'	--	288	--	--
B-2 / S-2	5'	<0.300	2960	<10	342
	10'	<0.300	2440	<10	<10
	15'	--	2280	<10	<10
	20'	--	2240	<10	<10
	25'	--	1230	<10	<10
	30'	--	848	<10	<10
B-3 / S-3	5'	<0.300	176	<10	<10
	10'	<0.300	144	<10	<10
	15'	<0.300	288	<10	<10
	20'	<0.300	240	<10	<10
B-4 / S-4	2'	--	352	--	--
	5'	--	400	--	--
	10'	--	400	--	--
	15'	--	240	--	--
	20'	--	208	--	--

--Analyte Not Tested

April 26, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
B-2	35'	--	160	--	--
Refusal	40'	--	128	--	--

--Analyte Not Tested

Proposed Remedial actions

- The impacted area within the old tank battery surrounding S-1 and S-2 will be excavated down to the depth of 4-feet deep or the rock shelf, whichever comes first. A 20 mil liner will be installed into the bottom of the excavation to encapsulate the remaining impacted soil.
- The impacted area in the vicinity of sample location S-3 will be excavated to a depth of 2-feet deep. The area around S-4 will be excavated to a depth of 1-foot deep.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.

- The excavated areas will be backfilled with locally obtained soil. The backfilled areas in the pasture will be contoured to match the surrounding terrain and left in a “rough” condition to approximate natural surface deviations, control erosion, and promote revegetation.
- The area will be seeded with the NMSLO recommended seed mixture for the area. Immediately following preparation of the site, a Culti-Pack Seed Drill will be utilized to plant 1 acre of BLM #2.
- The site will be monitored by Lime Rock Resources personnel to insure proper revegetation is achieved. The NMSLO policy states that the goal is to obtain native plant levels and diversity equal to or exceeding the natural potential levels.
- A final closure report documenting all remedial actions, analytical results, Final C-141 and seeding labels will be provided to the NMOCD Hobbs Office and the NMSLO along with the Revegetation Forms.

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

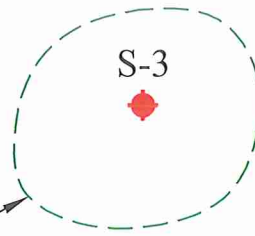
Attachments:

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

APPENDIX I

SITE MAP

Stained
Area



S-2

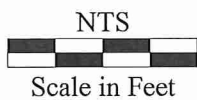
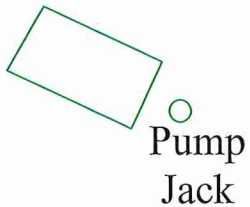


Old Battery
Location

S-1



S-4



Legend

◆ - Sample Location



Date: 05/16/2016

Scale: NTS

Drawn By: TJS

NVANU #82
Lime Rock Resources
Lea County, New Mexico
Figure 1 - Site Plan

APPENDIX II
GROUNDWATER DATA



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
L 03241	L	LE		2	2	10	17S	34E		636425	3636145*	584	122	92	30
L 06134	L	LE		2	4	03	17S	34E		636411	3636949*	710	175	95	80
L 03011	L	LE				02	17S	34E		637425	3637158*	865	121	80	41
L 05806	L	LE		2	2	11	17S	34E		638036	3636179*	1148	155	105	50
L 02749	L	LE		4	2	11	17S	34E		638043	3635776*	1310	150	85	65
L 06074	L	LE		2	2	03	17S	34E		636395	3637753*	1401	172	95	77
L 06771	L	LE		1	1	1	12	17S	34E	638338	3636287*	1426	165	86	79
L 03846 X	L	LE		3	3	11	17S	34E		636847	3634945*	1510	200	130	70
L 06894	L	LE		1	4	1	10	17S	34E	635524	3635825*	1532	175	103	72
L 06766	L	LE		4	1	1	12	17S	34E	638538	3636087*	1658	160	90	70
L 06752	L	LE		4	4	4	10	17S	34E	636542	3634836*	1661	170	55	115
L 03846 X2	L	LE		1	1	14	17S	34E		636853	3634543*	1912	200	90	110

Average Depth to Water: **92 feet**

Minimum Depth: **55 feet**

Maximum Depth: **130 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 636921

Northing (Y): 3636454

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

APPENDIX III

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. : 575-365-9724
Facility Name : North Vacuum Abo North Unit #82 (NVANU #82)	Facility Type: Battery

Surface Owner : State	Mineral Owner:	Lease No. 30-025-32693
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LOCATION OF RELEASE

Unit Letter P	Section 2	Township 17S	Range 34E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude **32.857914 N** Longitude **-103.5242233 W**

NATURE OF RELEASE


Type of Release : Unknown	Volume of Release : Unknown	Volume Recovered: Unknown
Source of Release : Unknown	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery:
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Amber Groves	Date and Hour:	
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.* **Amber Groves with the NM State Land Office and the NMOCD required the impacted areas around the old tank battery be delineated to determine the extent of the vertical contamination.**

Describe Area Affected and Cleanup Action Taken.* **Lime Rock Resources contacted Talon/LPE to perform initial site assessment and sampling activities in order to generate a work plan.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Michael Barrett	Approved by District Supervisor:		
Title: Production Superintendent	Approval Date:	Expiration Date:	
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 4/18/2016 Phone: 575-365-9724			

* Attach Additional Sheets If Necessary

APPENDIX IV
LABORATORY RESULTS

March 24, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NVANU #82

Enclosed are the results of analyses for samples received by the laboratory on 03/18/16 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 03/18/2016
 Reported: 03/24/2016
 Project Name: NVANU #82
 Project Number: 701307.077.01
 Project Location: NOT GIVEN

 Sampling Date: 03/15/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H600599-01)

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	03/23/2016	ND	2.01	100	2.00	1.37		
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66		
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0.895		
Total Xylenes*	<0.150	0.150	03/23/2016	ND	5.21	86.9	6.00	2.69		
Total BTX	<0.300	0.300	03/23/2016	ND						

Surrogate: 4-Bromofluorobenzene (PII) 102 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1550	16.0	03/21/2016	ND	432	108	400	11.8		

TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	03/22/2016	ND	199	99.4	200	1.20		
DRO >C10-C28	<50.0	50.0	03/22/2016	ND	182	91.2	200	8.62		

Surrogate: 1-Chlorooctane 73.9 % 35-147

Surrogate: 1-Chlorooctadecane 88.3 % 28-171

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: 03/18/2016
 Reported: 03/24/2016
 Project Name: NVANU #82
 Project Number: 701307.077.01
 Project Location: NOT GIVEN

 Sampling Date: 03/15/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0.5' (H600599-02)

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	03/23/2016	ND	2.01	100	2.00	1.37	
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	<0.150	0.150	03/23/2016	ND	5.21	86.9	6.00	2.69	
Total BTEX	<0.300	0.300	03/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 97.9 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	03/21/2016	ND	416	104	400	8.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	68.2	50.0	03/22/2016	ND	182	91.2	200	8.62	

Surrogate: 1-Chlorooctane 85.9 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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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: 03/18/2016
 Reported: 03/24/2016
 Project Name: NVANU #82
 Project Number: 701307.077.01
 Project Location: NOT GIVEN

 Sampling Date: 03/15/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 0' (H600599-03)

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	03/23/2016	ND	2.01	100	2.00	1.37	
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	<0.150	0.150	03/23/2016	ND	5.21	86.9	6.00	2.69	
Total BTEX	<0.300	0.300	03/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	03/21/2016	ND	432	108	400	11.8	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	23.0	10.0	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	207	10.0	03/22/2016	ND	182	91.2	200	8.62	

Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 125 % 28-171

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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: 03/18/2016
Reported: 03/24/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: NOT GIVEN

Sampling Date: 03/15/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0.5' (H600599-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/23/2016	ND	2.01	100	2.00	1.37	
Toluene*	<0.050	0.050	03/23/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/23/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	<0.150	0.150	03/23/2016	ND	5.21	86.9	6.00	2.69	
Total BTX	<0.300	0.300	03/23/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 74.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	03/21/2016	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/22/2016	ND	199	99.4	200	1.20	
DRO >C10-C28	379	10.0	03/22/2016	ND	182	91.2	200	8.62	

Surrogate: 1-Chlorooctane 86.8 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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: 03/18/2016
Reported: 03/24/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: NOT GIVEN

Sampling Date: 03/15/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H600599-05)

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	03/24/2016	ND	2.01	100	2.00	1.37	
Toluene*	<0.050	0.050	03/24/2016	ND	1.91	95.5	2.00	1.66	
Ethylbenzene*	<0.050	0.050	03/24/2016	ND	1.66	83.0	2.00	0.895	
Total Xylenes*	<0.150	0.150	03/24/2016	ND	5.21	86.9	6.00	2.69	
Total BTX	<0.300	0.300	03/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PII) 97.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	03/21/2016	ND	416	104	400	8.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<200	200	03/22/2016	ND	199	99.4	200	1.20		
DRO >C10-C28	22200	200	03/22/2016	ND	182	91.2	200	8.62		

Surrogate: 1-Chlorooctane 94.6 % 35-147

Surrogate: 1-Chlorooctadecane 1600 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: TRION / LPE		P.O. #: 701307.077.01	
Project Manager: DAVID ADKINS		Company: TRION / LPE	
Address: 408 W. TX AVE		City: ARLESIA	
City: ARLESIA		State: NM Zip: 88210	
Phone #: 5754414835		Fax #: 	
Project #: 701307.077.01		Project Owner: Line Road	
Project Name: NVAVU # 82		State: Zip: 	
Project Location: 		Phone #: 	
Sampler Name: D-ADKINS		Fax #: 	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH	BTEX	TOTAL CHLORIDES	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								ACID/BASE:
H000399	1	S-1	0.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	2	S-1	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	3	S-2	0.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	4	S-2	0.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	5	S-3	0.1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Relinquished By: AS	Date: 3/18/16	Received By: DAVID ADKINS	Date: 3/15/16
Relinquished By: DAVID ADKINS	Date: 3/15/16	Received By: DAVID ADKINS	Date: 3/15/16
Relinquished By: DAVID ADKINS	Date: 3/15/16	Received By: DAVID ADKINS	Date: 3/15/16

Sample Condition	Checked By: DAVID ADKINS
Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	
Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	

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 #:
REMARKS: 	



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

April 13, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NVANU #82

Enclosed are the results of analyses for samples received by the laboratory on 04/07/16 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 04/07/2016
Reported: 04/13/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/05/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H600753-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2016	ND	1.97	98.5	2.00	1.73	
Toluene*	<0.050	0.050	04/08/2016	ND	1.86	92.8	2.00	3.49	
Ethylbenzene*	<0.050	0.050	04/08/2016	ND	1.64	82.2	2.00	4.52	
Total Xylenes*	<0.150	0.150	04/08/2016	ND	5.09	84.9	6.00	4.15	
Total BTEX	<0.300	0.300	04/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	04/12/2016	ND	416	104	400	3.77	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	<10.0	10.0	04/08/2016	ND	166	83.0	200	6.94	

Surrogate: 1-Chlorooctane 76.1 % 35-147

Surrogate: 1-Chlorooctadecane 98.9 % 28-171

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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: 04/07/2016
Reported: 04/13/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/05/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 2' REFUSAL (H600753-02)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2016	ND	1.97	98.5	2.00	1.73	
Toluene*	0.111	0.050	04/08/2016	ND	1.86	92.8	2.00	3.49	
Ethylbenzene*	0.100	0.050	04/08/2016	ND	1.64	82.2	2.00	4.52	
Total Xylenes*	<0.150	0.150	04/08/2016	ND	5.09	84.9	6.00	4.15	
Total BTEX	<0.300	0.300	04/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/12/2016	ND	416	104	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	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	<10.0	10.0	04/08/2016	ND	166	83.0	200	6.94	

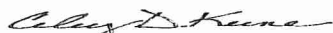
Surrogate: 1-Chlorooctane 71.0 % 35-147

Surrogate: 1-Chlorooctadecane 88.3 % 28-171

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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: 04/07/2016
 Reported: 04/13/2016
 Project Name: NVANU #82
 Project Number: 701307.077.01
 Project Location: LEA CTY.

 Sampling Date: 04/05/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 1' (H600753-03)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2016	ND	1.97	98.5	2.00	1.73	
Toluene*	0.196	0.050	04/08/2016	ND	1.86	92.8	2.00	3.49	
Ethylbenzene*	0.266	0.050	04/08/2016	ND	1.64	82.2	2.00	4.52	
Total Xylenes*	0.419	0.150	04/08/2016	ND	5.09	84.9	6.00	4.15	
Total BTEX	0.882	0.300	04/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7360	16.0	04/12/2016	ND	416	104	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	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	300	10.0	04/08/2016	ND	166	83.0	200	6.94	

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

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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: 04/07/2016
Reported: 04/13/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/05/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 2' REFUSAL (H600753-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2016	ND	1.97	98.5	2.00	1.73	
Toluene*	0.444	0.050	04/08/2016	ND	1.86	92.8	2.00	3.49	
Ethylbenzene*	0.953	0.050	04/08/2016	ND	1.64	82.2	2.00	4.52	
Total Xylenes*	2.08	0.150	04/08/2016	ND	5.09	84.9	6.00	4.15	
Total BTEX	3.48	0.300	04/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5040	16.0	04/12/2016	ND	416	104	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	52.2	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	2730	10.0	04/08/2016	ND	166	83.0	200	6.94	

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 147 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/07/2016
Reported: 04/13/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/05/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' REFUSAL (H600753-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.55	2.00	04/13/2016	ND	1.97	98.5	2.00	1.73	
Toluene*	65.7	2.00	04/13/2016	ND	1.86	92.8	2.00	3.49	
Ethylbenzene*	101	2.00	04/13/2016	ND	1.64	82.2	2.00	4.52	
Total Xylenes*	118	6.00	04/13/2016	ND	5.09	84.9	6.00	4.15	
Total BTEX	287	12.0	04/13/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/12/2016	ND	416	104	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	708	10.0	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	1960	10.0	04/08/2016	ND	166	83.0	200	6.94	

Surrogate: 1-Chlorooctane 127 % 35-147

Surrogate: 1-Chlorooctadecane 120 % 28-171

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

Received: 04/07/2016
Reported: 04/13/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/05/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0.25' (H600753-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2016	ND	1.97	98.5	2.00	1.73	
Toluene*	0.182	0.050	04/08/2016	ND	1.86	92.8	2.00	3.49	
Ethylbenzene*	0.254	0.050	04/08/2016	ND	1.64	82.2	2.00	4.52	
Total Xylenes*	0.321	0.150	04/08/2016	ND	5.09	84.9	6.00	4.15	
Total BTEX	0.758	0.300	04/08/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	04/12/2016	ND	416	104	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	04/08/2016	ND	164	82.0	200	17.7	
DRO >C10-C28	10.9	10.0	04/08/2016	ND	166	83.0	200	6.94	


Surrogate: 1-Chlorooctane 79.3 % 35-147

Surrogate: 1-Chlorooctadecane 92.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

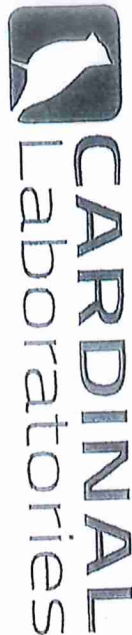
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #:															
Project Manager: David Adkins		Company: Talon/LPE															
Address: 408 W. Texas Ave.		Attn:															
City: Artesia		State: NM Zip: 88210															
Phone #: 575-746-8768		Fax #: 575-746-8905															
Project #: 701307.077.01		Project Owner: Line Dept															
Project Name: MUPM #82		State: Zip:															
Project Location: Lea City		Phone #:															
Sample Name: Kimblison		Fax #:															
FOR LAB USE ONLY		PRESERV. SAMPLING															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL.	OTHER :	DATE	TIME	Chlorides	TPH	BTEX
H1600153	S-1 1'	G	1										4/5/16	10:45	1		
1	S-1 2' Refusal	G	1										10:47	1	1		
2	S-2 1' Refusal	G	1										10:55	1	1		
3	S-2 2' Refusal	G	1										11:05	1	1		
4	S-3 1' Refusal	G	1										11:07	1	1		
5	S-4 0.25'	G	1														
6																	
REMARKS:																	

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Relinquished By: *Jim Walker* Date: *4/9/16* Time: *4:40* Received By: *David Adkins* Date: *4/9/16* Time: *12:05*

Delivered By: (Circle One) *UPS* Sample Condition: ☒ Intact ☐ Cool ☐ Yes ☐ No Checked By: *David Adkins*

Sample - UPS - Bus - Other: *4:26*

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



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

April 20, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NVANU #82

Enclosed are the results of analyses for samples received by the laboratory on 04/15/16 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 04/15/2016
 Reported: 04/20/2016
 Project Name: NVANU #82
 Project Number: 701307.077.01
 Project Location: LEA CTY.

 Sampling Date: 04/12/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: B-1 5' (H600824-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1730	16.0	04/18/2016	ND	416	104	400	0.00	

Sample ID: B-1 10' (H600824-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	04/18/2016	ND	416	104	400	0.00	

Sample ID: B-1 15' (H600824-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	04/18/2016	ND	416	104	400	0.00	

Sample ID: B-1 20' (H600824-04)

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	04/18/2016	ND	416	104	400	3.92	

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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: 04/15/2016
 Reported: 04/20/2016
 Project Name: NVANU #82
 Project Number: 701307.077.01
 Project Location: LEA CTY.

 Sampling Date: 04/12/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: B-2 5' (H600824-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	04/18/2016	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71	
DRO >C10-C28	342	10.0	04/15/2016	ND	193	96.7	200	6.92	

Surrogate: 1-Chlorooctane 82.8 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

Sample ID: B-2 10' (H600824-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	04/18/2016	ND	416	104	400	3.92		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71		
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92		

Surrogate: 1-Chlorooctane 82.9 % 35-147

Surrogate: 1-Chlorooctadecane 89.4 % 28-171

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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: 04/15/2016
Reported: 04/20/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: B-2 15' (H600824-07)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2280	16.0	04/18/2016	ND	416	104	400	3.92	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71	
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92	
Surrogate: 1-Chlorooctane	78.6 %	35-147							
Surrogate: 1-Chlorooctadecane	89.9 %	28-171							

Sample ID: B-2 20' (H600824-08)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	04/18/2016	ND	416	104	400	3.92	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71	
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92	
Surrogate: 1-Chlorooctane	78.6 %	35-147							
Surrogate: 1-Chlorooctadecane	88.6 %	28-171							

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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: 04/15/2016
Reported: 04/20/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: B-2 25' (H600824-09)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	04/18/2016	ND	416	104	400	3.92		
TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71		
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92		
Surrogate: 1-Chlorooctane	77.7 %	35-147								
Surrogate: 1-Chlorooctadecane	89.2 %	28-171								


Sample ID: B-2 30' (H600824-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	04/18/2016	ND	416	104	400	3.92	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71	
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92	
Surrogate: 1-Chlorooctane		77.0 %	35-147						
Surrogate: 1-Chlorooctadecane		88.8 %	28-171						

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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: 04/15/2016
Reported: 04/20/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: B-3 5' (H600824-11)

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	04/15/2016	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	04/15/2016	ND	1.95	97.7	2.00	6.73	
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	86.9	2.00	6.74	
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.38	89.6	6.00	6.09	
Total BTX	<0.300	0.300	04/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	04/18/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71	
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92	

Surrogate: 1-Chlorooctane 76.3 % 35-147

Surrogate: 1-Chlorooctadecane 88.6 % 28-171

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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: 04/15/2016
Reported: 04/20/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: B-3 10' (H600824-12)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2016	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	04/15/2016	ND	1.95	97.7	2.00	6.73	
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	86.9	2.00	6.74	
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.38	89.6	6.00	6.09	
Total BTEx	<0.300	0.300	04/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/18/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71	
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92	

Surrogate: 1-Chlorooctane 80.5 % 35-147

Surrogate: 1-Chlorooctadecane 99.1 % 28-171

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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: 04/15/2016
Reported: 04/20/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: B-3 15' (H600824-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2016	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	04/15/2016	ND	1.95	97.7	2.00	6.73	
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	86.9	2.00	6.74	
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.38	89.6	6.00	6.09	
Total BTX	<0.300	0.300	04/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 73.6-140

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	04/18/2016	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71	
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92	

Surrogate: 1-Chlorooctane 84.7 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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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: 04/15/2016
Reported: 04/20/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: B-3 20' (H600824-14)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2016	ND	2.06	103	2.00	5.88	
Toluene*	<0.050	0.050	04/15/2016	ND	1.95	97.7	2.00	6.73	
Ethylbenzene*	<0.050	0.050	04/15/2016	ND	1.74	86.9	2.00	6.74	
Total Xylenes*	<0.150	0.150	04/15/2016	ND	5.38	89.6	6.00	6.09	
Total BTEX	<0.300	0.300	04/15/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/18/2016	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/15/2016	ND	182	90.8	200	6.71	
DRO >C10-C28	<10.0	10.0	04/15/2016	ND	193	96.7	200	6.92	

Surrogate: 1-Chlorooctane 88.1 % 35-147

Surrogate: 1-Chlorooctadecane 99.3 % 28-171

Sample ID: B-4 2' (H600824-15)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/18/2016	ND	416	104	400	3.92	

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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: 04/15/2016
Reported: 04/20/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: B-4 5' (H600824-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/18/2016	ND	416	104	400	3.92	

Sample ID: B-4 10' (H600824-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	04/18/2016	ND	416	104	400	3.92	

Sample ID: B-4 15' (H600824-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/18/2016	ND	416	104	400	3.92	

Sample ID: B-4 20' (H600824-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/18/2016	ND	416	104	400	3.92	

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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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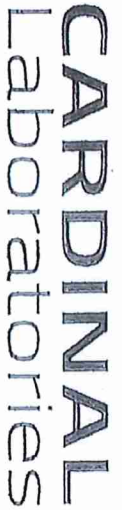
Celey D. Keene, Lab Director/Quality Manager



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April 26, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: NVANU #82

Enclosed are the results of analyses for samples received by the laboratory on 04/21/16 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 04/21/2016
Reported: 04/26/2016
Project Name: NVANU #82
Project Number: 701307.077.01
Project Location: LEA CTY.

Sampling Date: 04/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: B-2 35' (H600872-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/26/2016	ND	416	104	400	3.92	

Sample ID: B-2 40' (H600872-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/26/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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