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**Closure Report  
Lime Rock Resources II-A, L.P.:**

**Eagle 34 K Fed #21 Battery  
|30-015-29112|2RP-4221|**

September 5, 2017

**Prepared By:**

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

**Prepared For:**

Lime Rock Resources II-A, L.P.

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

Subject: **Closure Report**  
Lime Rock Resources II-A, L.P.  
Eagle 34 K Fed #21 Battery  
|30-015-28451|2RP-4221|

Dear Mr. Bratcher,

Lime Rock Resources (Lime Rock) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and deferment request are submitted herein.

#### Site Information

The Eagle 34 K Fed #21 Battery is located approximately twelve (12) miles east of Artesia, New Mexico. The legal location for this release is Unit Letter K, Section 34, Township 17 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.7891502 North and -104.2692719 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reeves-Gypsum land complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of older alluvial deposits of upland plains and piedmont areas. Drainage courses in this area are normally dry.

#### Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that groundwater in the project vicinity is 50-feet 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'

## Incident Description and Initial Remedial Actions

A system failure on the automated alarm system resulted in a tank overflow. Approximately 188bbls of mixed fluids were released. The fluid breached the earthen berms of the tank battery and flowed downhill to the north. The fluid initially pooled on the Eagle 34 K Fed #86 location then it continued downhill into the pasture. The fluid continued to flow in the pasture for approximately 500-feet.

Personnel were mobilized to recover standing fluid (approximately 100bbls of mixed fluids were recovered) and scrape up the saturated soil. The impacted area within the tank battery and the area just north of the battery, where numerous above ground flowlines create an obstacle, were hand excavated to the deepest extent feasible (approximately 1-foot BGS.)

Talon mobilized personnel to perform a site assessment and collect soil samples within the impacted area. The results of the soil sampling activities are summarized in the table below.

## Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0.5	0.331	256	<10.0	<10.0
S-1	1	<0.300	544	<10.0	<10.0
S-1	2	<0.300	112	<10.0	<10.0
S-2	0.5	65.6	9600	264	1200
S-2	1	<0.300	3520	<10.0	<10.0
S-2	2	<0.300	3200	<10.0	<10.0
S-2	3	--	80	--	--
S-3	0.5	1.29	416	19.2	175
S-3	1	<0.300	1070	<10.0	<10.0
S-3	2	<0.300	368	<10.0	<10.0
S-3	3	--	160	--	--
S-3	4	--	112	--	--
S-4	0	129	12800	915	7400
S-4	1	<0.300	2000	<10.0	<10.0
S-4	2	<0.300	1520	<10.0	<10.0
S-4	3	--	1090	--	--
S-4	4	--	192	--	--
S-4	5	--	48	--	--
S-5	0	587	3040	4760	19200

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-5	1	0.825	2200	<10.0	108
S-5	2	0.340	272	57.9	6260
S-5	2.5	--	96	<10.0	<10.0
S-6	1	<0.300	21600	<10.0	270
S-7	1	<0.300	2800	<50.0	7490
S-8	1	<0.300	1040	20.7	1950
S-9	1	<0.300	1490	<10.0	<10.0
S-10	1	<0.300	144	<10.0	108

#### Confirmation Soil Sampling

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-5	2.5	--	64.0	<10.0	<10.0

(-- ) Analyte Not Tested

(ND) Analyte Not Detected

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 the recommended guideline for Total Chlorides is 1,000 mg/kg

#### Remedial Actions

- Remedial activities were carried out pursuant to the work plan approved by NMOCD and BLM.
- The impacted area in the vicinity of sample location S-2 was excavated to a depth of 3-feet BGS.
- The impacted area in the vicinity of sample locations S-3 was excavated to a depth of 1.5-feet BGS.
- The impacted area in the vicinity of sample location S-4 was excavated to a depth of 3.5-feet BGS.
- The impacted area in the vicinity of sample location S-5 was excavated to a depth of 2.5-feet BGS. A confirmation soil sample was taken at this sample location per NMOCD stipulations. The results were below NMOCD RRAL's.
- The impacted area in the battery was excavated to the greatest extent practical without threatening the structural integrity of the tanks. This area was treated with a bio-remediation agent, backfilled with gravel and will be fully remediated upon closure of the facility.



- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavated areas on the Eagle K Fed #86 well pad were backfilled with caliche and contoured to match the surrounding location.
- The excavated areas in the pasture were backfilled with top soil, contoured to match the surrounding terrain and seeded with BLM #1 seed mixture. A seeding label is attached in [Appendix IV](#).

### Deferment

On behalf of Lime Rock Resources, we respectfully request that no further actions be required at this time and that any further remediation of this site in the areas in the vicinity of sample locations S-6 through S-9 (battery/flowlines) be deferred to the close of the facility.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

  
Sheldon L. Hitchcock  
Project Manager

  
David J. Adkins  
District Manager

### Attachments

Appendix I Site Plan  
Appendix II Groundwater Data  
Appendix III Initial C-141 & Final C-141  
Appendix IV Seed Label  
Appendix V Laboratory Results

# APPENDIX I

## SITE PLAN



# Eagle 34 K Fed #21

Lime Rock Resources

- Legend**
- Impacted Area
  - Sample Location





# **APPENDIX II**

## **GROUNDWATER DATA**



## OSE Well Locations



September 1, 2017

### OSE Points of Diversion

OSE District Boundary

- Other
- PEN



## OSE Well Locations

Wells visible at 1:18,000 with 1,000 features per view

+

32 788360 -104 269028

X

Q

(1 of 2)

NM Water Rights Look Up

RA-03917

OBJECTID

93564

POD Basin

RA

POD Number

03917

POD Suffix

County

LE

Start Date

July 31, 1958

Finish Date

July 31, 1958

Plug Date

Proof Completion of Well Date

Elevation

Depth of Well

130

Ground Water Source

A

Percent Shallow

100

Depth to Water

50

Well Log File Date

August 6, 1958

Schedule Date

Use of Well

Pump Type

Pump Serial

Discharge

Aquifer

System Date

January 27, 2003

Sub-Division Name

Sub-Division Location

Restrictions

Surface Code

Estimated Yield

POD Status

Casing Size

Ditch Name

Tract Number

Map Number

Survey Map

Zoom to

-104.263 32.767 Degrees

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**APPENDIX III**  
**INITIAL C-141**  
**&**  
**FINAL C-141**

**NM OIL CONSERVATION**  
ARTESIA DISTRICT

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

State of New Mexico  
Energy Minerals and Natural Resources

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

**MAY 23 2017**

Form C-141  
Revised August 8, 2011

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

**RECEIVED**

**Release Notification and Corrective Action**

DAB1714540286 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company: Lime Rock Resources II-A, L.P. <u>277558</u>	Contact: Mike Barrett
Address: 1111 Bagby Street Suite 4600, Houston, TX 77002	Telephone No. 575-365-9724
Facility Name: Eagle 34 "K" Federal #021 Battery	Facility Type: Battery

Surface Owner: BLM	Mineral Owner: BLM	API No. 30-015-29112
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	34	17S	27E	2110	South	1750	West	Eddy

Latitude 32.7891502 Longitude -104.2692719

**NATURE OF RELEASE**

Type of Release: Mixed Fluids	Volume of Release: 188bbls (120 Oil & 68 PW)	Volume Recovered: 100bbls (72 Oil & 28 PW)
Source of Release: Tank Battery Overflow	Date and Hour of Occurrence: 5/11/2017 Time: Unknown	Date and Hour of Discovery: 5/11/2017 Time: 7:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD: Mike Bratcher & Crystal Weaver BLM: Shelly Tucker	
By Whom? Sheldon Hitchcock-Talon/LPE	Date and Hour: 5/11/2017 1:09 pm	
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.\*

A failure with the automated alarm system resulted in a tank overflow inside of the bermed battery. The system was repaired and put back into service.

Describe Area Affected and Cleanup Action Taken.\*

The berms of the tank battery failed which resulted in fluid flowing downhill to the north. The fluid initially pooled on the Eagle 34 K Fed #06 location then it continued downhill into the pasture. The fluid continued in the pasture for approximately 500-feet.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: <u>Mike Barrett</u>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Mike Barrett	Approved by Environmental Specialist: <u>Crystal Weaver</u>	
Title: Production Superintendent	Approval Date: <u>5/23/17</u>	Expiration Date: <u>N/A</u>
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval: <u>see attached</u>	
Date: 5/12/2017 Phone: 575-365-9724	Attached <input checked="" type="checkbox"/>	

\* Attach Additional Sheets If Necessary

New forms can be found in the  
New Mexico State Website in forms:  
[http://www.emnrd.state.nm.us/  
OCD/forms.html](http://www.emnrd.state.nm.us/OCD/forms.html)

28P-4221



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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: Lime Rock Resources II-A, L.P.	Contact: Mike Barrett	
Address: 1111 Bagby Street Suite 4600, Houston, TX 77002	Telephone No. 575-365-9724	
Facility Name: Eagle 34 "K" Federal #021 Battery	Facility Type: Battery	
Surface Owner: BLM	Mineral Owner: BLM	API No. 30-015-29112

#### LOCATION OF RELEASE

Unit Letter K	Section 34	Township 17S	Range 27E	Feet from the 2110	North/South Line South	Feet from the 1750	East/West Line West	County Eddy
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Latitude 32.7891502 Longitude -104.2692719

#### NATURE OF RELEASE

Type of Release: Mixed Fluids	Volume of Release: 188bbbls (120 Oil & 68 PW)	Volume Recovered: 100bbbls (72 Oil & 28 PW)
Source of Release: Tank Battery Overflow	Date and Hour of Occurrence: 5/11/2017 Time: Unknown	Date and Hour of Discovery: 5/11/2017 Time: 7:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD: Mike Bratcher & Crystal Weaver BLM: Shelly Tucker	
By Whom? Sheldon Hitchcock-Talon/LPE	Date and Hour: 5/11/2017 1:09 pm	
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.\*

A failure with the automated alarm system resulted in a tank overflow inside of the bermed battery. The system was repaired and put back into service.

Describe Area Affected and Cleanup Action Taken.\*

The berms of the tank battery failed which resulted in fluid flowing downhill to the north. The fluid initially pooled on the Eagle 34 K Fed #86 location then it continued downhill into the pasture. The fluid continued in the pasture for approximately 500-feet. Talon/LPE mobilized personnel to conduct a site assessment and soil sampling. Upon receipt of analytical results from the soil sampling event a remediation work plan was developed and subsequently approved by NMOCD and BLM. The remediation was conducted in accordance with the approved 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: 		<u>OIL CONSERVATION DIVISION</u>	
Printed Name: Mike Barrett		Approved by Environmental Specialist:	
Title: Production Superintendent		Approval Date:	Expiration Date:
E-mail Address: mbarrett@limerockresources.com		Conditions of Approval:	
Date: 9/5/2017 Phone: 575-365-9724		Attached <input type="checkbox"/>	

\* Attach Additional Sheets If Necessary

# APPENDIX IV

## SEED LABEL

**Curtis and Curtis,**  
4500 North Prince  
Clovis, NM 88101  
Phone: (575) 762-4759  
[www.curtisseed.com](http://www.curtisseed.com)

XL. 8/30/17

Talon /LPE, LTD  
2.5 Acre BLM #1, Drilled Rate  
1 - 2.5 Acre Bag @ 25.47 Bulk Pounds  
Lime Rock: Eagle 34 K Fed #21 Battery  
Job #: 701307.099.01  
API: 30-015-29112  
USTR: K-S34-T17S-R27E

<u>Item</u>	<u>Origin</u>	<u>Purity</u>	<u>Germ</u>	<u>Dormant</u>	<u>Total Germination</u>	<u>Test Date</u>	<u>Total P.L.S Pounds</u>
Seed Dropseed Not Stated	Colorado	12.52%	98.00%	0.00%	98.00%(TZ)	02/17	2.50
Sideoats Grama	Texas	73.35%	79.00%	13.00%	92.00%	02/17	13.75
El Reno Plains Bristlegrass Not Stated	Oklahoma	25.30%	6.00%	91.00%	97.00%(TZ)	05/17	5.00
Other Crop: Weed Seed: Inert Matter:	0.04% 0.39% 10.64%	There Are 1 Bags For This Mix This Bag Weighs 25.47 Bulk Pounds Use This Bag For 2.5 Acres			Total Bulk Pounds:		25.47

**There Are 1 Bags For This Mix  
This Bag Weighs 25.47 Bulk Pounds  
Use This Bag For 2.5 Acres**

# **APPENDIX V**

## **LABORATORY RESULTS**



May 24, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EAGLE 34 K FED #21 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/12/17 16:40.

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](http://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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-1 0.5' (H701271-01)**

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	05/16/2017	ND	2.17	109	2.00	0.961	
Toluene*	<b>0.054</b>	0.050	05/16/2017	ND	2.12	106	2.00	0.566	
Ethylbenzene*	<0.050	0.050	05/16/2017	ND	2.20	110	2.00	1.44	
<b>Total Xylenes*</b>	<b>0.217</b>	0.150	05/16/2017	ND	6.25	104	6.00	2.30	
<b>Total BTX</b>	<b>0.331</b>	0.300	05/16/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	05/16/2017	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	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64	

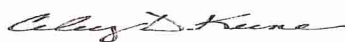
Surrogate: 1-Chlorooctane 87.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.4 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-1 1' (H701271-02)**

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	05/18/2017	ND	1.89	94.4	2.00	0.776	QR-02
Toluene*	<0.050	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01	
Ethylbenzene*	<0.050	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20	
Total BTX	<0.300	0.300	05/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PII) 100 % 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	05/16/2017	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	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 92.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.8 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

### Sample ID: S-1 2' (H701271-03)

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	05/18/2017	ND	1.89	94.4	2.00	0.776		
Toluene*	<0.050	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01		
Ethylbenzene*	<0.050	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54		
Total Xylenes*	<0.150	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20		
Total BTEX	<0.300	0.300	05/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 98.3 % 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	112	16.0	05/16/2017	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	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 86.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.5 % 34.7-157

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\*=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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-2 0.5' (H701271-04)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.648</b>	0.100	05/18/2017	ND	1.89	94.4	2.00	0.776	
<b>Toluene*</b>	<b>13.4</b>	0.100	05/18/2017	ND	1.87	93.6	2.00	1.01	
<b>Ethylbenzene*</b>	<b>17.2</b>	0.100	05/18/2017	ND	1.95	97.6	2.00	1.54	
<b>Total Xylenes*</b>	<b>34.4</b>	0.300	05/18/2017	ND	5.52	92.0	6.00	1.20	
<b>Total BTX</b>	<b>65.6</b>	0.600	05/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PII) 129 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>9600</b>	16.0	05/16/2017	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
<b>GRO C6-C10</b>	<b>264</b>	10.0	05/15/2017	ND	206	103	200	2.89	
<b>DRO &gt;C10-C28</b>	<b>1200</b>	10.0	05/15/2017	ND	218	109	200	3.64	

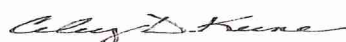
Surrogate: 1-Chlorooctane 112 % 28.3-164

Surrogate: 1-Chlorooctadecane 109 % 34.7-157

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\* = 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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-2 1' (H701271-05)**

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	05/18/2017	ND	1.89	94.4	2.00	0.776	
<b>Toluene*</b>	<b>0.061</b>	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01	
Ethylbenzene*	<0.050	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20	
Total BTX	<0.300	0.300	05/18/2017	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
<b>Chloride</b>	<b>3520</b>	16.0	05/16/2017	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	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 98.3 % 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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-2 2' (H701271-06)**

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/18/2017	ND	1.89	94.4	2.00	0.776		
Toluene*	<0.050	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01		
Ethylbenzene*	<0.050	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54		
Total Xylenes*	<0.150	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20		
Total BTX	<0.300	0.300	05/18/2017	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	05/16/2017	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	05/15/2017	ND	206	103	200	2.89		
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64		

Surrogate: 1-Chlorooctane 99.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 107 % 34.7-157

**Sample ID: S-2 3' (H701271-07)**

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	05/16/2017	ND	448	112	400	3.51		

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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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-3 0.5' (H701271-08)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2017	ND	1.89	94.4	2.00	0.776	
Toluene*	0.190	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01	
Ethylbenzene*	0.309	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54	
Total Xylenes*	0.770	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20	
Total BTX	1.29	0.300	05/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 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	416	16.0	05/16/2017	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	19.2	10.0	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	175	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 82.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.7 % 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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-3 1' (H701271-09)**

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	05/18/2017	ND	1.89	94.4	2.00	0.776		
Toluene*	<0.050	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01		
Ethylbenzene*	<0.050	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54		
Total Xylenes*	<0.150	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20		
Total BTEx	<0.300	0.300	05/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	1070	16.0	05/16/2017	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	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 66.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 70.4 % 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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-3 2' (H701271-10)**

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	05/18/2017	ND	1.89	94.4	2.00	0.776	
Toluene*	<0.050	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01	
Ethylbenzene*	<0.050	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20	
Total BTX	<0.300	0.300	05/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	368	16.0	05/16/2017	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	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 80.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.1 % 34.7-157

**Sample ID: S-3 3' (H701271-11)**

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	05/16/2017	ND	448	112	400	3.51	

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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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-3 4' (H701271-12)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/16/2017	ND	448	112	400	3.51	

**Sample ID: S-4 0' (H701271-13)**

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.66	0.500	05/18/2017	ND	1.89	94.4	2.00	0.776	
Toluene*	34.4	0.500	05/18/2017	ND	1.87	93.6	2.00	1.01	
Ethylbenzene*	30.5	0.500	05/18/2017	ND	1.95	97.6	2.00	1.54	
Total Xylenes*	59.3	1.50	05/18/2017	ND	5.52	92.0	6.00	1.20	
Total BTX	129	3.00	05/18/2017	ND					

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

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	05/16/2017	ND	448	112	400	3.51	

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	915	50.0	05/15/2017	ND	206	103	200	2.89		
DRO >C10-C28	7400	50.0	05/15/2017	ND	218	109	200	3.64		

Surrogate: 1-Chlorooctane 152 % 28.3-164

Surrogate: 1-Chlorooctadecane 360 % 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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-4 1' (H701271-14)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/18/2017	ND	1.89	94.4	2.00	0.776	
Toluene*	<0.050	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01	
Ethylbenzene*	<0.050	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54	
Total Xylenes*	<0.150	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20	
Total BTX	<0.300	0.300	05/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 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	2000	16.0	05/16/2017	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	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 80.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 83.8 % 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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-4 2' (H701271-15)**

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	05/18/2017	ND	1.89	94.4	2.00	0.776		
Toluene*	<0.050	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01		
Ethylbenzene*	<0.050	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54		
Total Xylenes*	<0.150	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20		
Total BTEX	<0.300	0.300	05/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 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	1520	16.0	05/16/2017	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	05/15/2017	ND	206	103	200	2.89	
DRO >C10-C28	<10.0	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 72.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 74.1 % 34.7-157

**Sample ID: S-4 3' (H701271-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	05/16/2017	ND	448	112	400	3.51	

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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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-4 4' (H701271-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/16/2017	ND	464	116	400	3.51		

**Sample ID: S-4 5' (H701271-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/16/2017	ND	464	116	400	3.51		

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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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-5 0' (H701271-19)**

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>30.4</b>	2.00	05/18/2017	ND	1.89	94.4	2.00	0.776	
<b>Toluene*</b>	<b>175</b>	2.00	05/18/2017	ND	1.87	93.6	2.00	1.01	
<b>Ethylbenzene*</b>	<b>134</b>	2.00	05/18/2017	ND	1.95	97.6	2.00	1.54	
<b>Total Xylenes*</b>	<b>247</b>	6.00	05/18/2017	ND	5.52	92.0	6.00	1.20	
<b>Total BTX</b>	<b>587</b>	12.0	05/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>3040</b>	16.0	05/16/2017	ND	464	116	400	3.51	
<b>TPH 8015M</b>									<b>S-06</b>

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>4760</b>	50.0	05/15/2017	ND	206	103	200	2.89	
<b>DRO &gt;C10-C28</b>	<b>19200</b>	50.0	05/15/2017	ND	218	109	200	3.64	

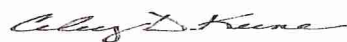
Surrogate: 1-Chlorooctane 189 % 28.3-164

Surrogate: 1-Chlorooctadecane 468 % 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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-5 1' (H701271-20)**

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.088</b>	0.050	05/18/2017	ND	1.89	94.4	2.00	0.776	
<b>Toluene*</b>	<b>0.251</b>	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01	
<b>Ethylbenzene*</b>	<b>0.145</b>	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54	
<b>Total Xylenes*</b>	<b>0.342</b>	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20	
<b>Total BTX</b>	<b>0.825</b>	0.300	05/18/2017	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
<b>Chloride</b>	<b>2200</b>	16.0	05/16/2017	ND	464	116	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	05/15/2017	ND	206	103	200	2.89	
<b>DRO &gt;C10-C28</b>	<b>108</b>	10.0	05/15/2017	ND	218	109	200	3.64	

Surrogate: 1-Chlorooctane 85.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.5 % 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:	05/12/2017	Sampling Date:	05/12/2017
Reported:	05/24/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-5 2' (H701271-21)**

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	05/18/2017	ND	1.89	94.4	2.00	0.776	
Toluene*	0.097	0.050	05/18/2017	ND	1.87	93.6	2.00	1.01	
Ethylbenzene*	0.069	0.050	05/18/2017	ND	1.95	97.6	2.00	1.54	
Total Xylenes*	0.174	0.150	05/18/2017	ND	5.52	92.0	6.00	1.20	
Total BTX	0.340	0.300	05/18/2017	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/16/2017	ND	464	116	400	3.51	

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	57.9	50.0	05/15/2017	ND	206	103	200	2.89		
DRO >C10-C28	6260	50.0	05/15/2017	ND	218	109	200	3.64		

Surrogate: 1-Chlorooctane 80.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 216 % 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: 05/12/2017  
 Reported: 05/24/2017  
 Project Name: EAGLE 34 K FED #21 BATTERY  
 Project Number: NOT GIVEN  
 Project Location: K-34-12S-27E

 Sampling Date: 05/12/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-5 2.5' (H701271-22)**

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	05/16/2017	ND	464	116	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	05/23/2017	ND	179	89.6	200	14.4		
DRO >C10-C28	<10.0	10.0	05/23/2017	ND	179	89.6	200	12.0		
<hr/>										
Surrogate: 1-Chlorooctane	101 %	28.3-164								
Surrogate: 1-Chlorooctadecane	99.6 %	34.7-157								

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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-04	The RPD for the BS/BSD was outside of historical limits.
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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Celey D. Keene, Lab Director/Quality Manager



# CARDINAL Laboratories

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PG 1 of 3

Company Name: Talon/LPE		<b>BILL TO</b>		ANALYSIS REQUEST											
Project Manager: S. Hitchcock		P.O. #:													
Address: 408 W. Texas Ave.		Company: Talon/LPE													
City: Artesia		Attn:													
State: NM zip: 88210		Address:													
Phone #: 575-746-8768		City:													
Fax #: 575-746-8905		State:													
Project #: Project Owner: Lime Rock		Zip:													
Project Name: Eagle 34K Pad #21 Battery		Phone #:													
Project Location: K-34-126-27E		Fax #:													
Sampler Name: S. Hitchcock															
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	TPH
H101211	5-10.5	G	1										5/13/17	8:02	✓
	5-11'	G	1										5/13/17	8:02	✓
	5-12'	G	1										5/13/17	8:04	✓
	5-20.5'	G	1										5/13/17	8:10	✓
	5-21'	G	1										5/13/17	8:12	✓
	5-22'	G	1										5/13/17	8:14	✓
	5-23'	G	1										5/13/17	8:16	✓
	5-30.5'	G	1										5/13/17	8:00	✓
	5-31'	G	1										5/13/17	8:02	✓
	5-32'	G	1										5/13/17	8:04	✓
	5-33'	G	1										5/13/17	8:06	✓
	5-34'	G	1										5/13/17	8:08	✓
	5-35'	G	1										5/13/17	8:10	✓
	5-36'	G	1										5/13/17	8:12	✓
	5-37'	G	1										5/13/17	8:14	✓
	5-38'	G	1										5/13/17	8:16	✓
	5-39'	G	1										5/13/17	8:18	✓
	5-40'	G	1										5/13/17	8:20	✓
	5-41'	G	1										5/13/17	8:22	✓
	5-42'	G	1										5/13/17	8:24	✓
	5-43'	G	1										5/13/17	8:26	✓
	5-44'	G	1										5/13/17	8:28	✓
	5-45'	G	1										5/13/17	8:30	✓
	5-46'	G	1										5/13/17	8:32	✓
	5-47'	G	1										5/13/17	8:34	✓
	5-48'	G	1										5/13/17	8:36	✓
	5-49'	G	1										5/13/17	8:38	✓
	5-50'	G	1										5/13/17	8:40	✓
	5-51'	G	1										5/13/17	8:42	✓
	5-52'	G	1										5/13/17	8:44	✓
	5-53'	G	1										5/13/17	8:46	✓
	5-54'	G	1										5/13/17	8:48	✓
	5-55'	G	1										5/13/17	8:50	✓
	5-56'	G	1										5/13/17	8:52	✓
	5-57'	G	1										5/13/17	8:54	✓
	5-58'	G	1										5/13/17	8:56	✓
	5-59'	G	1										5/13/17	8:58	✓
	5-60'	G	1										5/13/17	9:00	✓
	5-61'	G	1										5/13/17	9:02	✓
	5-62'	G	1										5/13/17	9:04	✓
	5-63'	G	1										5/13/17	9:06	✓
	5-64'	G	1										5/13/17	9:08	✓
	5-65'	G	1										5/13/17	9:10	✓
	5-66'	G	1										5/13/17	9:12	✓
	5-67'	G	1										5/13/17	9:14	✓
	5-68'	G	1										5/13/17	9:16	✓
	5-69'	G	1										5/13/17	9:18	✓
	5-70'	G	1										5/13/17	9:20	✓
	5-71'	G	1										5/13/17	9:22	✓
	5-72'	G	1										5/13/17	9:24	✓
	5-73'	G	1										5/13/17	9:26	✓
	5-74'	G	1										5/13/17	9:28	✓
	5-75'	G	1										5/13/17	9:30	✓
	5-76'	G	1										5/13/17	9:32	✓
	5-77'	G	1										5/13/17	9:34	✓
	5-78'	G	1										5/13/17	9:36	✓
	5-79'	G	1										5/13/17	9:38	✓
	5-80'	G	1										5/13/17	9:40	✓
	5-81'	G	1										5/13/17	9:42	✓
	5-82'	G	1										5/13/17	9:44	✓
	5-83'	G	1										5/13/17	9:46	✓
	5-84'	G	1										5/13/17	9:48	✓
	5-85'	G	1										5/13/17	9:50	✓
	5-86'	G	1										5/13/17	9:52	✓
	5-87'	G	1										5/13/17	9:54	✓
	5-88'	G	1										5/13/17	9:56	✓
	5-89'	G	1										5/13/17	9:58	✓
	5-90'	G	1										5/13/17	10:00	✓
	5-91'	G	1										5/13/17	10:02	✓
	5-92'	G	1										5/13/17	10:04	✓
	5-93'	G	1										5/13/17	10:06	✓
	5-94'	G	1										5/13/17	10:08	✓
	5-95'	G	1										5/13/17	10:10	✓
	5-96'	G	1										5/13/17	10:12	✓
	5-97'	G	1										5/13/17	10:14	✓
	5-98'	G	1										5/13/17	10:16	✓
	5-99'	G	1										5/13/17	10:18	✓
	5-100'	G	1										5/13/17	10:20	✓
	5-101'	G	1										5/13/17	10:22	✓
	5-102'	G	1										5/13/17	10:24	✓
	5-103'	G	1										5/13/17	10:26	✓
	5-104'	G	1										5/13/17	10:28	✓
	5-105'	G	1										5/13/17	10:30	✓
	5-106'	G	1										5/13/17	10:32	✓
	5-107'	G	1										5/13/17	10:34	✓
	5-108'	G	1										5/13/17	10:36	✓
	5-109'	G	1										5/13/17	10:38	✓
	5-110'	G	1										5/13/17	10:40	✓
	5-111'	G	1										5/13/17	10:42	✓
	5-112'	G	1										5/13/17	10:44	✓
	5-113'	G	1										5/13/17	10:46	✓
	5-114'	G	1										5/13/17	10:48	✓
	5-115'	G	1										5/13/17	10:50	✓
	5-116'	G	1										5/13/17	10:52	✓
	5-117'	G	1										5/13/17	10:54	✓
	5-118'	G	1										5/13/17	10:56	✓
	5-119'	G	1										5/13/17	10:58	✓
	5-120'	G	1										5/13/17	11:00	✓
	5-121'	G	1										5/13/17	11:02	✓
	5-122'	G	1										5/13/17	11:04	✓
	5-123'	G	1										5/13/17	11:06	✓
	5-124'	G	1										5/13/17	11:08	✓
	5-125'	G	1										5/13/17	11:10	✓
	5-126'	G	1										5/13/17	11:12	✓
	5-127'	G	1										5/13/17	11:14	✓
	5-128'	G	1										5/13/17	11:16	✓
	5-129'	G	1										5/13/17	11:18	✓
	5-130'	G	1										5/13/17	11:20	✓
	5-131'	G	1										5/13/17	11:22	✓
	5-132'	G	1										5/13/17	11:24	✓
	5-133'	G	1										5/13/17	11:26	✓
	5-134'	G	1										5/13/17	11:28	✓
	5-135'	G	1										5/13/17	11:30	✓
	5-136'	G	1										5/13/17	11:32	✓
	5-137'	G	1										5/13/17	11:34	✓
	5-138'	G	1										5/13/17	11:36	✓
	5-139'	G	1										5/13/17	11:38	✓
	5-140'	G	1										5/13/17	11:40	✓
	5-141'	G	1										5/13/17	11:42	✓
	5-142'	G	1										5/13/17	11:44	✓
	5-143'	G	1										5/13/17	11:46	✓
	5-144'	G	1										5/13/17	11:48	✓
	5-145'	G	1										5/13/17	11:50	✓
	5-146'	G	1										5/13/17	11:52	✓
	5-147'	G	1										5/13/17		





# CARDINAL Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: S. Hitchcock

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #:

Project Name: ~~East 34 K #21 Battery~~

Project Location: K-34-175-27E

Sample Name: S, Hitchcock

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H101871

11 5-3 3'

12 5-3 4'

13 5-4 0'

14 5-4 1'

15 5-4 2'

16 5-4 3'

17 5-4 4'

18 5-4 5'

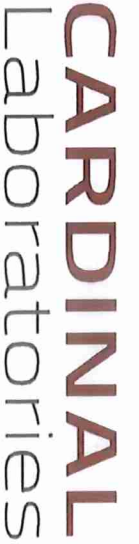
19 5-5 0'

20 5-5 1'

TPH

BTEx

Chlorides



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

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

R/30E2

Page 22 of 22

May 30, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EAGLE 34 K FED #21 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 05/24/17 12:00.

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](http://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:	05/24/2017	Sampling Date:	05/23/2017
Reported:	05/30/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.009.01	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-6 1' (H701390-01)**

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	05/25/2017	ND	1.90	94.8	2.00	0.773	
Toluene*	<0.050	0.050	05/25/2017	ND	1.87	93.7	2.00	0.523	
Ethylbenzene*	<0.050	0.050	05/25/2017	ND	1.99	99.7	2.00	1.14	
Total Xylenes*	<0.150	0.150	05/25/2017	ND	5.50	91.6	6.00	0.956	
Total BTX	<0.300	0.300	05/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.0 % 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	21600	16.0	05/25/2017	ND	432	108	400	3.64	

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	05/25/2017	ND	199	99.6	200	1.40	
DRO >C10-C28	270	10.0	05/25/2017	ND	198	99.1	200	0.486	

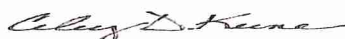
Surrogate: 1-Chlorooctane 89.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.7 % 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:	05/24/2017	Sampling Date:	05/23/2017
Reported:	05/30/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.009.01	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-7 1' (H701390-02)**

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	05/25/2017	ND	1.90	94.8	2.00	0.773		
Toluene*	<0.050	0.050	05/25/2017	ND	1.87	93.7	2.00	0.523		
Ethylbenzene*	<0.050	0.050	05/25/2017	ND	1.99	99.7	2.00	1.14		
Total Xylenes*	<0.150	0.150	05/25/2017	ND	5.50	91.6	6.00	0.956		
Total BTEX	<0.300	0.300	05/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 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	2800	16.0	05/25/2017	ND	432	108	400	3.64		

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	05/25/2017	ND	199	99.6	200	1.40		
DRO >C10-C28	7490	50.0	05/25/2017	ND	198	99.1	200	0.486		

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 200 % 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:	05/24/2017	Sampling Date:	05/23/2017
Reported:	05/30/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.009.01	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-8 1' (H701390-03)**

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	05/25/2017	ND	1.90	94.8	2.00	0.773	
Toluene*	<0.050	0.050	05/25/2017	ND	1.87	93.7	2.00	0.523	
Ethylbenzene*	<0.050	0.050	05/25/2017	ND	1.99	99.7	2.00	1.14	
Total Xylenes*	<0.150	0.150	05/25/2017	ND	5.50	91.6	6.00	0.956	
Total BTX	<0.300	0.300	05/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.9 % 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	1040	16.0	05/25/2017	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	20.7	10.0	05/25/2017	ND	199	99.6	200	1.40	
DRO >C10-C28	1950	10.0	05/25/2017	ND	198	99.1	200	0.486	

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 109 % 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:	05/24/2017	Sampling Date:	05/23/2017
Reported:	05/30/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.009.01	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-9 1' (H701390-04)**

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	05/25/2017	ND	1.90	94.8	2.00	0.773	
Toluene*	<0.050	0.050	05/25/2017	ND	1.87	93.7	2.00	0.523	
Ethylbenzene*	<0.050	0.050	05/25/2017	ND	1.99	99.7	2.00	1.14	
Total Xylenes*	<0.150	0.150	05/25/2017	ND	5.50	91.6	6.00	0.956	
Total BTEX	<0.300	0.300	05/25/2017	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	1490	16.0	05/25/2017	ND	432	108	400	3.64	

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	05/25/2017	ND	199	99.6	200	1.40	
DRO >C10-C28	<10.0	10.0	05/25/2017	ND	198	99.1	200	0.486	

Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.5 % 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:	05/24/2017	Sampling Date:	05/23/2017
Reported:	05/30/2017	Sampling Type:	Soil
Project Name:	EAGLE 34 K FED #21 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.009.01	Sample Received By:	Tamara Oldaker
Project Location:	K-34-12S-27E		

**Sample ID: S-10 1' (H701390-05)**

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/25/2017	ND	1.90	94.8	2.00	0.773	
Toluene*	<0.050	0.050	05/25/2017	ND	1.87	93.7	2.00	0.523	
Ethylbenzene*	<0.050	0.050	05/25/2017	ND	1.99	99.7	2.00	1.14	
Total Xylenes*	<0.150	0.150	05/25/2017	ND	5.50	91.6	6.00	0.956	
Total BTEX	<0.300	0.300	05/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 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	144	16.0	05/25/2017	ND	432	108	400	3.64	

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	05/25/2017	ND	199	99.6	200	1.40	
DRO >C10-C28	108	10.0	05/25/2017	ND	198	99.1	200	0.486	

Surrogate: 1-Chlorooctane 93.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.6 % 34.7-157

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.
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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Cardinal Laboratories

\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



August 25, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: EAGLE 33/34 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/22/17 10:45.

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](http://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: 08/22/2017  
 Reported: 08/25/2017  
 Project Name: EAGLE 33/34 BATTERY  
 Project Number: 701307.103.01  
 Project Location: EDDY CO NM

 Sampling Date: 08/21/2017  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Tamara Oldaker

**Sample ID: S-5 2.5' (H702231-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/23/2017	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2017	ND	183	91.7	200	3.29	
DRO >C10-C28	<10.0	10.0	08/24/2017	ND	204	102	200	3.25	
Surrogate: 1-Chlorooctane		82.2 %	28.3-164						
Surrogate: 1-Chlorooctadecane		92.9 %	34.7-157						

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



### Notes and Definitions

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

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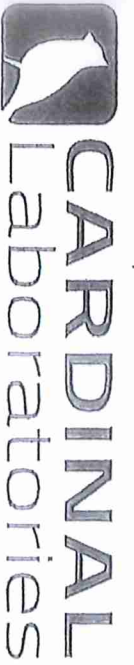
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Celey D. Keene, Lab Director/Quality Manager



RUSTH!!

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: David Atkins

Address: 408 W. Texas Ave.

City: Artesia

Phone #: 575-746-8768

Project #: 701307.103.01

Project Name: Eagle 33/34 Battery

Project Location: Paddy City

Sampler Name: Kim Wilson

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H102231

S-S 2.5'

(G) RAB OR (C) OMP.

# CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

Chlorides  
TPH 8015

ANALYSIS REQUEST

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Phone #:

Fax #:

PRESERV

SAMPLING

Relinquished By:

Kim Wilson

Relinquished By:

Kim Wilson

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

UPS

Date:

8/21/17

Time:

8:00 pm

Date:

8-22-17

Time:

10:45

Received By:

Kim Wilson

Received By:

Kim Wilson

Sample Condition

Cool Intact

Yes

No

CHECKED BY:

Initials

8/21/17

8/24/17

8/24/17

8/24/17

8/24/17

8/24/17

Phone Result:

Yes

No

Add'l Phone #:

Add'l Fax #:

REMARKS:

\* Sheldon added RUSTH

\* Sheldon added TPH