



May 22, 2013

Mr. Mike Bratcher
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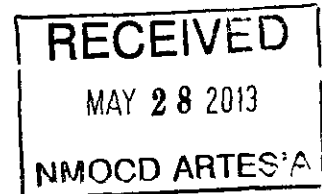
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ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Subject: **Remediation and Closure Report**
LRE Operating, LLC
Karlsbad Corral Central Battery
API # 30-015-33324 2RP-1310



Dear Mr. Bratcher,

LRE Operating, LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Karlsbad Corral Central Battery release. The results of our soil assessment and remediation activities consist of the following:

Incident Date

September 4, 2012

Background Information

The Karlsbad Corral Central Battery is located approximately forty-eight (48) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 2, Township 25 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.152898 North and -103.953089 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Tonuco loamy sand with a 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Salado formations which include loamy alluvium and eolian sands underlain by petrocalcic soils and hard caliche. The New Mexico State Engineer web site indicates the nearest ground water data to be in S10-T25S-R29E. The ground water in Section 10 is reported to be a depth of 40' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 20 based on the as following:

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

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

On September 4, 2012 a broken fitting on the transfer pump caused a release of 92 barrels of produced water inside the berms of the battery. A vacuum truck was immediately called to the location and recovered 70 barrels of produced water. A Hydro Vac was subsequently used to recover the heavily contaminated surface soil.

Actions Taken

On September 7, 2012 Talon/LPE mobilized personnel to begin the site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 2-feet below ground surface. Soil sample locations are illustrated on the attached site plan.

On March 6, 2013 Talon returned to the site for additional sampling. Grab soil samples were collected utilizing a backhoe to a depth of 12-feet deep.

On March 27, 2013 Talon/LPE mobilized personnel to the site again for additional vertical delineation. Grab soil samples were collected utilizing an air rotary rig to a depth of 45-feet deep.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B. The complete laboratory reports are attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

September 21, 2012

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-1	0'	<0.150	<10	33600
	1'	<0.150	<10	1250
	2'	--	--	1180
S-2	0'	0.538	23200	2320
	1'	5.255	8266	256
	2'	--	--	96
S-3	0'	<0.150	192	33600
	1'	<0.150	13.4	672
	2'	--	--	80

--Analyte Not Tested

February 27, 2013

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-4	1'	12.9	8704	80
	4'	--	--	15900
	5'	--	--	15300
	6'	--	--	15500
	7'	--	--	11500
	8'	--	--	12300
	10'	--	--	6530
	12'	--	--	2760

March 8, 2013

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
S-4	4'	--	--	15900
	5'	--	--	15300
	6'	--	--	15500
	7'	--	--	11500
	8'	--	--	12300
	10'	--	--	6530
	12'	--	--	2760

April 4, 2013

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
BH-5	15'	--	--	1620
	20'	--	--	2110
	25'	--	--	1460
	30'	--	--	1920
	40'	--	--	784
	45'	--	--	48
BH-6	2'	--	--	5320
	5'	--	--	10200
	10'	--	--	8480
BH-7	2'	--	--	48800
	5'	--	--	6800
	10'	--	--	6480
BH-8	2'	--	--	13400
	5'	--	--	8000
	10'	--	--	576

April 4, 2013-continued

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
BH-9	2'	--	--	4240
	5'	--	--	1840
	10'	--	--	832
BH-10	4'	--	--	56000
	5'	--	--	6800
	10'	--	--	4720
BH-11	3'	--	--	26000
	5'	--	--	16000
	10'	--	--	1790
BH-12	2'	--	--	19600
	5'	--	--	16400
	10'	--	--	3440
BH-13	1'	<0.300	12.4	24800
	5'	--	--	4720
	10'	--	--	944
BH-14	0'	--	--	256
	5'	--	--	96
	10'	--	--	608
S-15	wall	<0.300	1100	1230
S-16	wall	<0.300	1432.6	2440
S-17	2'	1.17	2911	1410
S-18	wall	<0.300	824	21200
Background	0'	--	--	32
	5'	--	--	128
	10'	--	--	416

--Analyte Not Tested

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 100 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

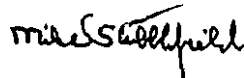
Proposed Remedial Actions

- The impacted material in battery area has been excavated to a depth of 2-feet to 4-feet deep. The excavated material has been transported to Lea Land LLC, a NMOCD approved solid waste disposal facility.
- Confirmation samples have been collected from the bottom and sidewalls of the excavated areas.
- On April 4, 2013 a meeting was conducted at the NMOCD office. Laboratory data from the excavated areas and the background analytical results were presented for review. Permission was granted to backfill and installed a liner within the bermed area of the battery.
- New berms were then constructed around the tank battery.
- A 20 Mil. liner was subsequently installed over the berms and into the excavation outside the berms. The excavation was backfilled to grade and contoured to match the surrounding location.

On behalf of LRE Operating LLC, Talon/LPE requests closure for the release that occurred on September 4, 2012 at the Karlsbad Corral Central tank battery.

Respectfully submitted,

TALON/LPE

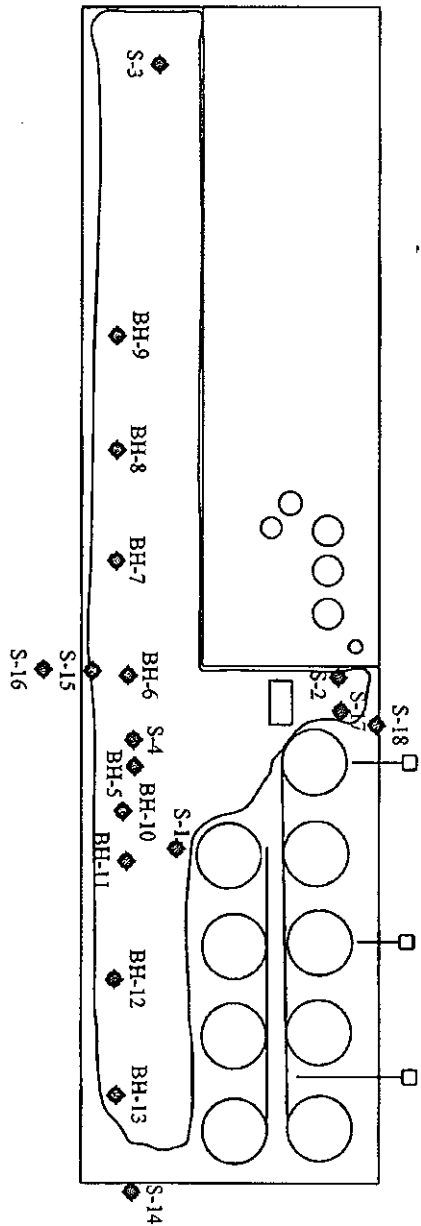
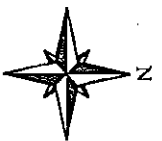


Mike Stubblefield
Project Manager



David J. Adkins
District Manager

SITE MAP



Legend
◆ - Sample Location



Date: 04/17/2013

Scale: 1" = 50'

Drawn By: TJS

Karlsbad Corral Central Battery

Lime Rock Resources

Artesia, New Mexico

Figure 1 - Site Plan

APPENDIX II
LABORATORY RESULTS



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

April 04, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KARLSBAD CORRAL CENTRAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/28/13 15:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BH - 5 15' (H300754-01)

Chloride, SM4500CI-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	04/01/2013	ND	448	112	400	0.00	

Sample ID: BH - 5 20' (H300754-02)

Chloride, SM4500CI-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2110	16.0	04/01/2013	ND	448	112	400	0.00	

Sample ID: BH - 5 25' (H300754-03)

Chloride, SM4500CI-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	04/01/2013	ND	448	112	400	0.00	

Sample ID: BH - 5 30' (H300754-04)

Chloride, SM4500CI-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	04/01/2013	ND	448	112	400	0.00	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BH - 5 40' (H300754-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	04/01/2013	ND	448	112	400	0.00	

Sample ID: BH - 5 45' (H300754-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/01/2013	ND	448	112	400	0.00	

Sample ID: BH - 6 2' (H300754-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5320	16.0	04/01/2013	ND	448	112	400	0.00	

Sample ID: BH - 6 5' (H300754-08)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 6 10' (H300754-09)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	04/01/2013	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BH - 7 2' (H300754-10)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 7 5' (H300754-11)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 7 10' (H300754-12)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 8 2' (H300754-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 8 5' (H300754-14)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	04/01/2013	ND	432	108	400	3.64	

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Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BH - 8 10' (H300754-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 9 2' (H300754-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 9 5' (H300754-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 9 10' (H300754-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	04/01/2013	ND	432	108	400	3.64	

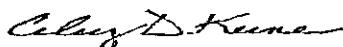
Sample ID: BH - 10 4' (H300754-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	56000	16.0	04/01/2013	ND	432	108	400	3.64	

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Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BH - 10 5' (H300754-20)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 10 10' (H300754-21)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 11 3' (H300754-22)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 11 5' (H300754-23)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	04/01/2013	ND	432	108	400	3.64	

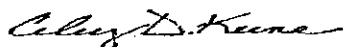
Sample ID: BH - 11 10' (H300754-24)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	04/01/2013	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

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Coley D. Keene, Lab Director/Quality Manager

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Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BH - 12 2' (H300754-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 12 5' (H300754-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	04/01/2013	ND	432	108	400	3.64	

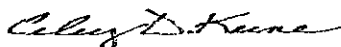
Sample ID: BH - 12 10' (H300754-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	04/02/2013	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BH - 13 1' (H300754-28)

BTEX 8021B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	04/04/2013	ND	2.02	101	2.00	0.606			
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756			
Ethylbenzene*	<0.050	0.050	04/04/2013	ND	2.32	116	2.00	0.556			
Total Xylenes*	<0.150	0.150	04/04/2013	ND	6.90	115	6.00	0.229			
Total BTEX	<0.300	0.300	04/04/2013	ND							

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							Analyzed By: DW	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	24800	16.0	04/02/2013	ND	432	108	400	0.00			
TPH 8015M			mg/kg							Analyzed By: MS	

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	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	12.4	10.0	04/02/2013	ND	178	88.8	200	10.9	

Surrogate: 1-Chlorooctane 79.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Sample ID: BH - 13 5' (H300754-29)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: DW	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	4720	16.0	04/02/2013	ND	432	108	400	0.00			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BH - 13 10' (H300754-30)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/02/2013	ND	432	108	400	0.00	

Sample ID: BH - 14 0' (H300754-31)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/02/2013	ND	432	108	400	0.00	

Sample ID: BH - 14 5' (H300754-32)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2013	ND	432	108	400	0.00	

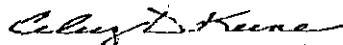
Sample ID: BH - 14 10' (H300754-33)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	04/02/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S - 15 (H300754-34)

BTX 8021B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/04/2013	ND	2.02	101	2.00	0.606		
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756		
Ethylbenzene*	0.055	0.050	04/04/2013	ND	2.32	116	2.00	0.556		
Total Xylenes*	0.220	0.150	04/04/2013	ND	6.90	115	6.00	0.229		
Total BTX	<0.300	0.300	04/04/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

Chloride, 5M4500Cl-B			mg/kg							Analyzed By: DW
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	04/02/2013	ND	432	108	400	0.00		
TPH 8015M			mg/kg							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	04/02/2013	ND	180	90.1	200	9.90		
DRO >C10-C28	1100	50.0	04/02/2013	ND	178	88.8	200	10.9		

Surrogate: 1-Chlorooctane 49.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Analytical Results For:

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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T2SS - R29E		

Sample ID: S - 16 (H300754-35)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2013	ND	2.02	101	2.00	0.606	
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756	
Ethylbenzene*	0.063	0.050	04/04/2013	ND	2.32	116	2.00	0.556	
Total Xylenes*	0.236	0.150	04/04/2013	ND	6.90	115	6.00	0.229	
Total BTEX	<0.300	0.300	04/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 115 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/02/2013	ND	432	108	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	12.6	10.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	1420	10.0	04/02/2013	ND	178	88.8	200	10.9	

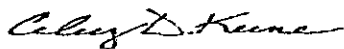
Surrogate: 1-Chlorooctane 87.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Analytical Results For:

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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S - 17 2' (H300754-36)

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2013	ND	2.02	101	2.00	0.606	
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756	
Ethylbenzene*	0.316	0.050	04/04/2013	ND	2.32	116	2.00	0.556	
Total Xylenes*	0.851	0.150	04/04/2013	ND	6.90	115	6.00	0.229	
Total BTEX	1.17	0.300	04/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PFB) 265 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	04/02/2013	ND	432	108	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	121	50.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	2790	50.0	04/02/2013	ND	178	88.8	200	10.9	

Surrogate: 1-Chlorooctane 96.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 148 % 63.6-154

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Analytical Results For:

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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S - 18 (H300754-37)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2013	ND	2.02	101	2.00	0.606	
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756	
Ethylbenzene*	0.050	0.050	04/04/2013	ND	2.32	116	2.00	0.556	
Total Xylenes*	0.171	0.150	04/04/2013	ND	6.90	115	6.00	0.229	
Total BTEX	<0.300	0.300	04/04/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	04/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						

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	04/02/2013	ND	180	90.1	200	9.90			
DRO >C10-C28	824	50.0	04/02/2013	ND	178	88.8	200	10.9			

Surrogate: 1-Chlorooctane 67.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 129 % 63.6-154

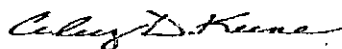
Sample ID: BACKGROUND 0' (H300754-38)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/02/2013	ND	432	108	400	0.00		

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Analytical Results For:

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

Received:	03/28/2013	Sampling Date:	03/27/2013
Reported:	04/04/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: BACKGROUND 5' (H300754-39)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/02/2013	ND	432	108	400	0.00	

Sample ID: BACKGROUND 10' (H300754-40)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/02/2013	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

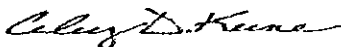
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-4

Company Name: 7661 LPE		P.O. #:	
Project Manager: Mike Stashidell		Company: 7661 LPE	
Address: 409 W 7th Ave		Attn:	
City: Artistic		Address:	
Phone #: 375-441-2254		City:	
Project #: 201302091.01		State:	
Project Name: Karlshof Golf Central Battery		Zip:	
Project Location: see 375-441-2254		Phone #:	
Sampler Name: Mike Stashidell		Fax #:	
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.		
H3000754			
1 BH-S 15'			
2 BH-S 20'			
3 BH-S 25'			
4 BH-S 30'			
5 BH-S 40'			
6 BH-S 45'			
7 BH-S 50'			
8 BH-S 55'			
9 BH-S 60'			
10 BH-S 65'			

MATRIX	PRESERV	SAMPLING
GROUNDWATER		
WASTEWATER		
SOIL		
SLUDGE		
OTHER:		
ACID/BASE:		
ICE/COOL		
OTHER:		

DATE	TIME
3/27/13	11:14 A
3/27/13	11:18 A
3/27/13	11:21 A
3/27/13	11:28 A
3/27/13	11:39 A
3/27/13	11:44 A
3/27/13	12:58 P
3/27/13	1:00 P
3/27/13	1:06 P
3/27/13	1:12 P

Total Chloride

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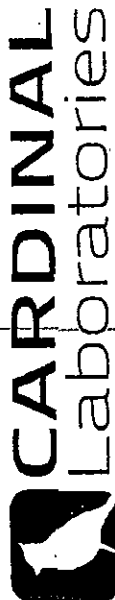
Relinquished By: **Mike Stashidell** Date: **3/28/13** Time: **10:00 a**

Relinquished By: **Sheldon Peterson** Date: **3/28/13** Time: **3:40 p**

Delivered By: **(Circle One)** **Sheldon Peterson**

Sampler - UPS - Bus - Other: **50**

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-3266



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2-4

Company Name: <u>Tabco LPE</u>		P.O. #:		ANALYSIS REQUEST											
Project Manager: <u>Mike Stussell</u>		Company: <u>Tabco LPE</u>													
Address: <u>408 Whit Tiger Ave</u>		Attn:													
City: <u>Alameda</u>		Address:													
Phone #: <u>575-441-2251</u>		City:													
Project #: <u>701307.081.01</u>		State: <u>NM</u>													
Project Name: <u>Kadebaga Solar Geothermal Battery</u>		Zip: <u>88210</u>													
Project Location: <u>see 31255-R25E</u>		Photo #:													
Sampler Name: <u>Mike Stussell</u>		Fax #:													
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.			MATRIX		PRESERV		SAMPLING		DATE		TIME			
11	08-7-5'			WASTEWATER						3/20/17		11:16 P			
12	08-7-10'			GROUNDWATER						3/20/17		11:22 P			
13	08-8-2'			WASTEWATER						3/22/17		11:24 P			
14	08-8-5'			WASTEWATER						3/22/17		11:26 P			
15	08-8-10'			WASTEWATER						3/22/17		11:28 P			
16	08-9-2'			WASTEWATER						3/22/17		11:31 P			
17	08-9-5'			WASTEWATER						3/22/17		11:33 P			
18	08-9-10'			WASTEWATER						3/22/17		11:35 P			
19	08-10-4'			WASTEWATER						3/22/17		11:38 P			
20	08-10-5'			WASTEWATER						3/22/17		11:39 P			

PLEASE NOTE: Laboratory and Client's responsibility for any chain of custody errors is limited to the extent of the information provided by the client for the analysis. All claims including but not limited to, and any other errors whatsoever shall be accepted without recourse made in writing and received by Cardinal within 30 days after completion of the analysis. In the event that Cardinal is held liable for any chain of custody errors, including but not limited to, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors, Cardinal shall not be held liable for the performance of any such errors. Cardinal is not responsible for any errors or omissions of the client or its subsidiaries, affiliates or successors.

Relinquished By: <u>Mike Stussell</u>	Received By: <u>Shadden Peterson</u>	Phone Result: ☐ Yes ☐ No	Add'l Phone #: ☐ Yes ☐ No
Relinquished By: <u>Shadden Peterson</u>	Received By: <u>Shadden Peterson</u>	Fax Result: ☐ Yes ☐ No	Add'l Fax #: ☐ Yes ☐ No
Delivered By: (Circle One) <u>Shadden Peterson</u>	Sample Condition: <u>Good</u>	REMARKS:	
Sampler - UPS - Bus - Other: <u>UPS</u>	Checked By: <u>Shadden Peterson</u>		

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3.4

Company Name: <u>Tula/LPE</u> Project Manager: <u>Mike Staschuk</u> Address: <u>408 W. 1st St</u> City: <u>Altoona</u> State: <u>PA</u> Zip: <u>16801</u>										Phone #: <u>717-241-1111</u> Fax #: <u>717-241-1111</u>										Project Name: <u>Altoona Water Treatment Plant</u> Project Location: <u>Altoona, PA</u>										Sample Name: <u>Altoona Water</u>									
FOR LAB USE ONLY										ANALYSIS REQUEST																													
Lab I.D. <u>H200754</u>										Sample I.D.																													
Matrix										Preserv. - Sampling																													
Containers										Date																													
Groundwater										Time																													
Wastewater										Other:																													
Sludge										Other:																													
Oil										Other:																													
Soil										Other:																													
Acid/Base										Other:																													
Ice/Cool										Other:																													
1										1/20/13 2:02P																													
2										1/20/13 2:10P																													
3										1/20/13 2:12P																													
4										1/20/13 2:15P																													
5										1/20/13 2:17P																													
6										1/20/13 2:18P																													
7										1/20/13 2:20P																													
8										1/20/13 2:31P																													
9										1/20/13 2:36P																													
10										1/20/13 2:39P																													

Relinquished By: Mike Staschuk **Received By:** Sheldon Niverson

Relinquished By: Mike Staschuk **Received By:** Sheldon Niverson

Delivered By: Sheldon Niverson **Checked By:** Sheldon Niverson

Delivered By: Sheldon Niverson **Checked By:** Sheldon Niverson

Relinquished By: Mike Staschuk **Received By:** Sheldon Niverson

Relinquished By: Mike Staschuk **Received By:** Sheldon Niverson

Delivered By: Sheldon Niverson **Checked By:** Sheldon Niverson

Delivered By: Sheldon Niverson **Checked By:** Sheldon Niverson

Relinquished By: Mike Staschuk **Received By:** Sheldon Niverson

Relinquished By: Mike Staschuk **Received By:** Sheldon Niverson

Delivered By: Sheldon Niverson **Checked By:** Sheldon Niverson

Delivered By: Sheldon Niverson **Checked By:** Sheldon Niverson

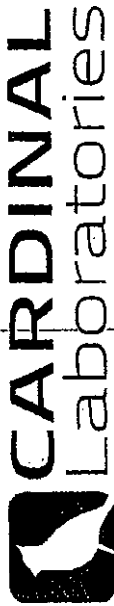
Relinquished By: Mike Staschuk **Received By:** Sheldon Niverson

Relinquished By: Mike Staschuk **Received By:** Sheldon Niverson

Delivered By: Sheldon Niverson **Checked By:** Sheldon Niverson

Delivered By: Sheldon Niverson **Checked By:** Sheldon Niverson

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 394-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Tabo/LPE</u>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <u>Mike Stachurski</u>		Company: <u>Tabo/LPE</u>			
Address: <u>403 W 7th St</u>		Attn:			
City: <u>Alameda</u>		Address:			
Phone #: <u>505-441-2254</u>		City:			
Project #: <u>201309.041.01</u>		State:			
Project Name: <u>Kardshead Solar Central Battery</u>		Zip:			
Project Location: <u>see 201309.041.01</u>		Phone #:			
Sampler Name: <u>Mike Stachurski</u>		Fax #:			
FOR LAB USE ONLY		MATRIX		PRESERV	
Lab I.D.		# CONTAINERS		SAMPLING	
Sample I.D.		(G) RUB OR (C) OMP.		DATE	
H300754		C		3/27/13 2:55 P	
31 84-4 0'		C		3/27/13 3:50 P	
32 84-4 5'		C		3/27/13 4:00 P	
33 84-4 10'		C		4:10 P	
34 5-15		C		4:18 P	
35 5-16		C		4:22 P	
36 5-19 2'		C		4:27 P	
37 5-18		C		4:35 P	
38 Backroad 0'		C		4:37 P	
39 Backroad 5'		C		4:40 P	
40 Backroad 10'		C			

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Relinquished By: <u>Mike Stachurski</u>	Date: <u>3/27/13</u>	Received By: <u>Sheldon Peterson</u>	Time: <u>10:00 A</u>
Relinquished By: <u>Sheldon Peterson</u>	Date: <u>3/27/13</u>	Received By: <u>Sheldon Peterson</u>	Time: <u>3:40</u>
Delivered By: (Circle One)	Sample Condition	Checked By: <u>Sheldon Peterson</u>	Time: <u>3:40</u>
Sampler - UPS - Bus - Other:	Cool ☒ Dry ☒	Yes ☒ No ☒	Yes ☒ No ☒
REMARKS:			
Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:			
Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:			

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

#26



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

March 08, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KARLSBAD CORRAL CENTRAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/07/13 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene". The signature is written in a cursive style with a large, stylized 'C' at the beginning.

Coley D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/07/2013	Sampling Date:	03/06/2013
Reported:	03/08/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T2S5 - R29E		

Sample ID: S-4 4' (H300581-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15900	16.0	03/08/2013	ND	432	108	400	0.00	

Sample ID: S-4 5' (H300581-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15300	16.0	03/08/2013	ND	432	108	400	0.00	

Sample ID: S-4 6' (H300581-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15500	16.0	03/08/2013	ND	432	108	400	0.00	

Sample ID: S-4 7' (H300581-04)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	03/08/2013	ND	432	108	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/07/2013	Sampling Date:	03/06/2013
Reported:	03/08/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S-4 8' (H300581-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	03/08/2013	ND	432	108	400	0.00	

Sample ID: S-4 10' (H300581-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	03/08/2013	ND	432	108	400	0.00	

Sample ID: S-4 12' (H300581-07)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	03/08/2013	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

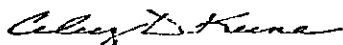
Notes and Definitions

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

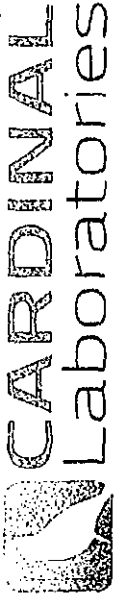
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2328 FAX (575) 393-2476

BILL TO		ANALYSIS REQUEST									
Company Name: <u>Talon Life</u>		P.O. #:		Company: <u>Talon Life</u>							
Project Manager: <u>Mike Strublefield</u>		Address: <u>408 West Texas Ave.</u>		Attn: <u>Mike Strublefield</u>							
City: <u>Alameda</u>		State: <u>NM</u>		Zip: <u>88210</u>							
Phone #: <u>575-941-7254</u>		Fax #: <u>575-941-7254</u>		Project Owner: <u>Line Road Pro, LLC</u>							
Project #: <u>201309.041.01</u>		Project Location: <u>ser. 2 - T255-R29E</u>		City: <u>Alameda</u>							
Project Name: <u>Karlsted Coal Center Battery</u>		State: <u>NM</u>		Zip: <u>88210</u>							
Sampler Name: <u>Chris Strublefield</u>		Phone #: <u>575-941-7254</u>		Fax #: <u>575-941-7254</u>							
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME			
	1	S-4 3'	1	SOIL			3/6/13	4:00P			
	2	S-4 5'	1	WASTEWATER			3/6/13	4:00P			
	3	S-4 6'	1	GROUNDWATER			3/6/13	4:12P			
	4	S-4 7'	1	SLUDGE			3/6/13	4:22P			
	5	S-4 8'	1	OTHER			3/6/13	4:35P			
	6	S-4 10'	1	OTHER			3/6/13	4:46P			
	7	S-4 12'	1	OTHER			3/6/13	5:05P			
									Total collected		

PLEASE NOTE: Liquidity and Damages: Cardinal Laboratory and its clients shall be liable for any claim arising from the use of the sample, but shall not be liable for the amount paid by the client for the analysis. All claims, including those for negligence and any other cause, shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business, transportation, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or licensees, arising out of or related to the performance of the service provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Mike Strublefield</u>	Date: <u>3/7/2013</u>	Received By: <u>John Jensen</u>	Date: <u>3:10</u>
Relinquished By:	Date:	Received By:	Date:
Delivered By: (Circle One) Sampler - UPS - Bus - Other	Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☐	Checked By: <u>John Jensen</u>	Checked By:
REMARKS:			

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2328



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

February 27, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KARLSBAD CORRAL CENTRAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/20/13 8:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/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,

A handwritten signature in cursive script, reading "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/20/2013	Sampling Date:	02/19/2013
Reported:	02/27/2013	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S-4 1' (H300463-01)

BTEX 8021B		mg/kg	Analyzed By: AP					5-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/26/2013	ND	1.85	92.6	2.00	17.8	
Toluene*	0.371	0.050	02/26/2013	ND	1.82	91.2	2.00	16.9	
Ethylbenzene*	2.70	0.050	02/26/2013	ND	1.78	89.0	2.00	16.3	
Total Xylenes*	9.85	0.150	02/26/2013	ND	5.40	90.0	6.00	17.0	
Total BTEX	12.9	0.300	02/26/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 782 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/25/2013	ND	432	108	400	3.64	

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	634	50.0	02/26/2013	ND	177	88.3	200	12.4	
DRO >C10-C28	8070	50.0	02/26/2013	ND	161	80.7	200	15.8	

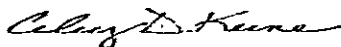
Surrogate: 1-Chlorooctane 163 % 65.2-140

Surrogate: 1-Chlorooctadecane 226 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

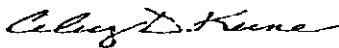
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Company Name: Talon LPE		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Mike Stubbelsfield		Company: Talon LPE					
Address: 408 West Tenth Ave		Attn:					
City: Artois		Address:					
Phone #: 535-4461-2239		City:					
Project #: 201307.041.01		State:					
Project Name: Karlsbad Central Battery		Zip:					
Project Location: sec. 2-T255-R292		Phone #:					
Sampler Name: Mike Stubbelsfield		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D. Sample I.D.		GROUNDWATER		ACID/BASE:		DATE	
		WASTEWATER		ICE/COOL		TIME	
		SOIL		OTHER:			
		SLUDGE					
		OIL					
# CONTAINERS							
(G) GRAB OR (C) COMP							
1541						2/19/13 1:20 P	
1541						8015m TPH	
						8021B BTEX	
						Total 16/01/13	

Relinquished By: <u>Mike Campbell</u>		Date: <u>2/20/13</u>	Received By: <u>[Signature]</u>	Phone Result: ☐ Yes ☐ No	Adm'l Phone #: _____
Relinquished By: <u>A</u>		Time: <u>4:22</u>	Received By: _____	Fax Result: ☐ Yes ☐ No	Adm'l Fax #: _____
		Date: _____		REMARKS: _____	
		Time: _____			
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <u>[Signature]</u>	
		Cool ☒ Intact ☐			
		Yes ☒ No ☐			
Sampler - UPS - Bus - Other:					

Page 4 of 4



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

September 21, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KARLSBAD CORRAL CENTRAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/14/12 14:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/14/2012	Sampling Date:	09/07/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S - 1 0' (H202235-01)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PFB) 99.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33600	16.0	09/20/2012	ND	400	100	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 77.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 74.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/14/2012	Sampling Date:	09/07/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S - 1 1' (H202235-02)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PIC) 98.5 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	09/20/2012	ND	400	100	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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ND	172	86.1	200	12.5	

Surrogate: 1-Chlorooctane 84.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.2 % 63.6-154

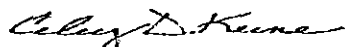
Sample ID: S - 1 2' (H202235-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1180	16.0	09/20/2012	ND	400	100	400	3.92	

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/14/2012	Sampling Date:	09/07/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S - 2 0' (H202235-04)

BTEX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.200	0.200	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	0.538	0.200	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.600	0.600	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PIL) 151 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	09/20/2012	ND	400	100	400	3.92	

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	09/19/2012	ND	167	83.7	200	1.70	
DRO >C10-C28	23200	200	09/19/2012	ND	163	81.6	200	1.80	

Surrogate: 1-Chlorooctane 99.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 261 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/14/2012	Sampling Date:	09/07/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S - 2 1' (H202235-05)

BTX 8021B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	0.285	0.200	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	3.16	0.200	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	1.81	0.600	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PIE) 271 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	09/21/2012	ND	400	100	400	0.00	

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	586	100	09/20/2012	ND	167	83.7	200	1.70	
DRO >C10-C28	7680	100	09/20/2012	ND	163	81.6	200	1.80	

Surrogate: 1-Chlorooctane 117 % 65.2-140

Surrogate: 1-Chlorooctadecane 218 % 63.6-154

Sample ID: S - 2 2' (H202235-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/21/2012	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	09/14/2012	Sampling Date:	09/07/2012
Reported:	09/21/2012	Sampling Type:	Soil
Project Name:	KARLSBAD CORRAL CENTRAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.041.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 2 - T25S - R29E		

Sample ID: S - 3 0' (H202235-07)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33600	16.0	09/21/2012	ND	400	100	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	09/20/2012	ND	167	83.7	200	1.70	
DRO >C10-C28	192	10.0	09/20/2012	ND	163	81.6	200	1.80	

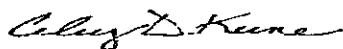
Surrogate: 1-Chlorooctane 81.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.4 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 09/14/2012
Reported: 09/21/2012
Project Name: KARLSBAD CORRAL CENTRAL BATTERY
Project Number: 701307.041.01
Project Location: SEC. 2 - T25S - R29E

Sampling Date: 09/07/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S - 3 1' (H202235-08)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	

Surrogate: 4-Bromofluorobenzene (PIC) 99.7 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	09/21/2012	ND	400	100	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	09/20/2012	ND	167	83.7	200	1.70	
DRO >C10-C28	13.4	10.0	09/20/2012	ND	163	81.6	200	1.80	

Surrogate: 1-Chlorooctane 81.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.1 % 63.6-154

Sample ID: S - 3 2' (H202235-09)

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	09/21/2012	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

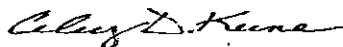
Notes and Definitions

- 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.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

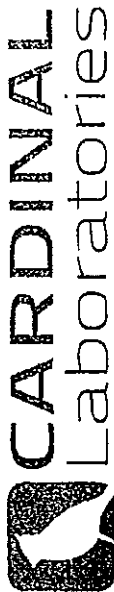
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon/LPE</u>		P.O. #:		BILL TO:		ANALYSIS REQUEST											
Project Manager: <u>Mike Stuebel</u>		Company: <u>Talon/LPE</u>		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:	
Address: <u>408 West Texas Ave</u>		City: <u>Acton</u>		State: <u>NM</u>		Zip: <u>88210</u>		Project #:		Project Owner:		Project Name: <u>Karlshad Canal Central Battery</u>		Project Location: <u>sec. 2 T25S R29E</u>		Sampler Name: <u>manstuebel</u>	
Matrix:		PRESERV		SAMPLING		DATE		TIME		8015M TPII		8021G BTEX		Total Hydrocarbons			
WASTEWATER		ACID/BASE		ICE/COOL		OTHER:											
GROUNDWATER		OTHER:															
# CONTAINERS		(G) RAB OR (C) OMP															
Lab I.D.	Sample I.D.																
1	5-1 0'																
2	5-1 1'																
3	5-1 2'																
4	5-2 0'																
5	5-2 1'																
6	5-2 2'																
7	5-3 0'																
8	5-3 1'																
9	5-3 2'																

PLEASE NOTE: Lab and Manager, Cardinal Laboratories, shall be responsible for any claims or damages resulting from the use of the above information. All claims must be made in writing and received by Cardinal within 10 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including attorney's fees, or loss of profits incurred by client, its subsidiaries, affiliates or successors, arising out of or related to the performance of services rendered by Cardinal Laboratories, its subsidiaries, affiliates or successors.

Relinquished By: Mike Stuebel Date: 9-14-12 Time: 1:00 Received By: William Reid Date: 9-14-12 Time: 1:00

Relinquished By: Mike Stuebel Date: 9-14-12 Time: 1:00 Received By: William Reid Date: 9-14-12 Time: 1:00

Delivered By: (Circle One) UPS 50 Sample Condition: Cool Intact Sealed Unaltered

Sampler - UPS - Bus - Other: Other Checked By: William Reid

REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #26

FINAL 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 : LRE Operating, LLC	Contact : Mike Barrett	
Address : 1111 Bagby Street Suite 4600, Houston, TX 77002	Telephone No. : 575-623-8424	
Facility Name : Karlsbad Corral Central Battery	Facility Type: Production/Injection Well	
Surface Owner : State	Mineral Owner: State	Lease No. : API #30-015-33324 2RP-1310

LOCATION OF RELEASE

Unit Letter O	Section 2	Township 25S	Range 29E	Feet from the 330'	North/South Line FSL	Feet from the 1980'	East/West Line FEL	County Eddy Eddy
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Latitude 32.15289 N Longitude -103.95308 W

NATURE OF RELEASE

Type of Release : Produced Water	Volume of Release : 92 bbls	Volume Recovered: 70 bbl
Source of Release : Broken Nipple on Triplex	Date and Hour of Occurrence: 9/4/12 am	Date and Hour of Discovery: 9/4/12 11:30 am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Mike Barrett	Date and Hour : 9/5/12 @ 11:00 am	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A 0.25-inch nipple cracked on triplex pump.
Used Hydro Vac to pick up heavily contaminated surface soil.

Describe Area Affected and Cleanup Action Taken.*

Talon/LPE was contacted for the correction of the release. The impacted material was excavated to a depth of 2-4 feet deep in the impacted areas. Analytical testing was completed and the impacted soil was transported to Lea Land, LLC an approved disposal facility. A 20 Mil liner was installed into the tank battery. The excavated areas were backfilled to grade with new material transported from a local borrow pit.
See final closure report dated May 22, 2013

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 Supervisor	Approval Date:	Expiration Date:	
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:		Attached ☐
Date: 5/22/2013	Phone: 575-623-8424		

* Attach Additional Sheets If Necessary