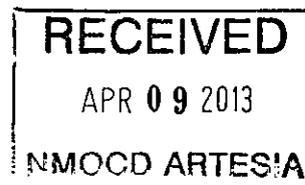




April 9, 2013



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

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

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

AUSTIN
911 West Anderson Lane
Suite 202
Austin, Texas 78757
Phone 512.989.3428
Fax 512.989.3487

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

SAN ANTONIO
11 Commercial Place
Schertz, Texas 78154
Phone 210.265.8025
Fax 210.568.2191

TULSA
525 South Main Street
Suite 535
Tulsa, Oklahoma 74103
Phone 918.742.0871
Fax 918.382.0232

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Subject: **Soil Assessment and Remediation Work Plan**
LRE Operating, LLC
Karlsbad Corral: Central Battery
API # 30-015-33324 2RP-1310
AMENDED

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 proposed 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'

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

March 6, 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
BH-9	2'	--	--	4240
	5'	--	--	1840
	10'	--	--	832
BH-10	4'	--	--	56000
	5'	--	--	6800
	10'	--	--	4720
BH-11	3'	--	--	26000
	5'	--	--	16000
	10'	--	--	1790

--Analyte Not Tested

April 4, 2013, continued

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides (mg/kg)</u>
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		<0.300	1100	1230
S-16		<0.300	1432.6	2440
S-17	2'	1.17	2911	1410
S-18		<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.

Summary

- Ground water in the project vicinity is 40-feet below land surface per the New Mexico State Engineer Database.
- Based on the depth to groundwater, it is unlikely that the impacts identified from this release will pose a threat to groundwater after proposed remediation activities are complete.

Proposed Remedial Actions

- The impacted area on location has been excavated to a depth of 1-foot to 4-feet deep. The excavated soil has been transported to a NMOCD approved solid waste disposal facility.
- Confirmation samples have been collected from the bottom and sidewalls of the excavated areas.
- The excavated area will be backfilled to surface using new soil from a local borrow pit. A 20 mil liner will be installed inside the berm area.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including Form C-141.

Should you have any questions or if further information is required, please do not hesitate to contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

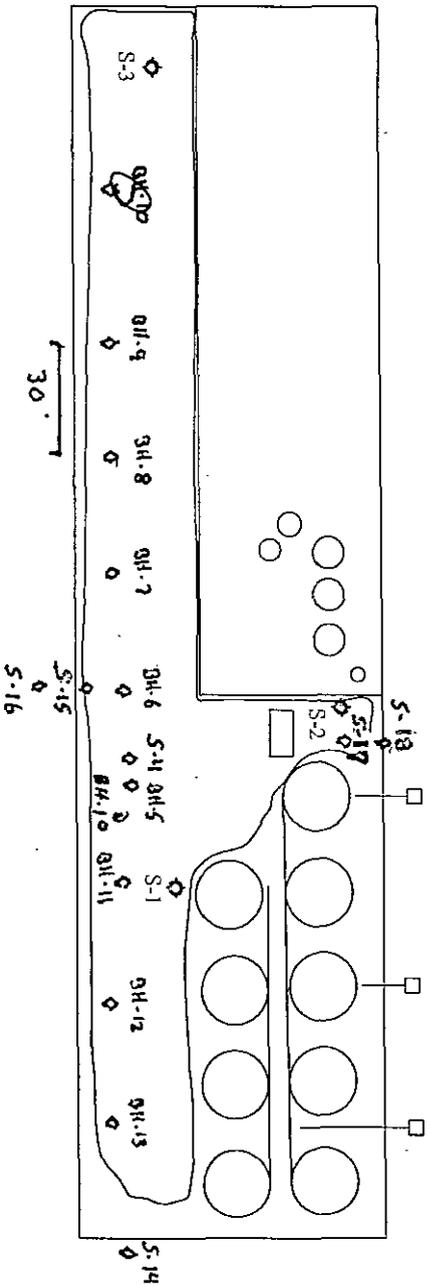


Mike Stubblefield
Project Manager

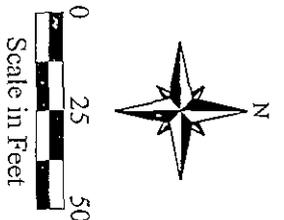


David J. Adkins
District Manager

SITE MAP



Legend
 ◆ - Sample Location



Date: 09/26/2012
 Scale: 1" = 50'
 Drawn By: TJS

Karlsbad Corral Central Battery
 Lime Rock Resources
 Artesia, New Mexico
 Figure 1 - Site Plan

APPENDIX I

INITIAL C-141

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

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

0 JMW 1228440835

OPERATOR		<input checked="" type="checkbox"/> Initial Report	<input type="checkbox"/> Final Report
Name of Company	LRE Operating, LLC <i>281994</i>	Contact	Michael 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
Surface Owner State	Mineral Owner State	API No. 30-015-33324	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	Eas/West Line	County
O	02	25 S	29 E	330'	FSL	1980'	FEL	Eddy

Latitude 32.15289815 Longitude 103.953089064

NATURE OF RELEASE

Type of Release	P/W	Volume of Release	92 bbls	Volume Recovered	70 bbls
Source of Release	Broken Nipple on Triplex	Date and Hour of Occurrence	9/4/12 A.M.	Date and Hour of Discovery	9/4/12 @ 11:30 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	IF YES, To Whom?	Mike Bratcher		
By Whom?	Michael Barrett	Date and Hour	9/5/12 @ 11:00 am		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	IF YES, Volume Impacting the Watercourse.	N/A		

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

1/4" nipple cracked on triplex pump.
Used Hydro Vac to pick up heavily contaminated surface soil.
Work plan will be submitted after soil samples are obtained.

RECEIVED
SEP 17 2012
NMOCD ARTESIA

Describe Area Affected and Cleanup Action Taken.*

Standing fluid was contained inside battery berms.
All standing fluid was picked up.

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 Environmental	Signed By <i>Mike Bratcher</i>
Title: Production Supervisor	Approval Date: OCT 10 2012	Expiration Date:
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval.	Attached <input type="checkbox"/>
Date: 09/05/2012 Phone: 575-623-8424	Remediation per OCD Rules & Guidelines. SUBMIT REMEDIATION PROPOSAL NOT LATER THAN: Nov. 10, 2012	

* Attach Additional Sheets If Necessary

2RP-1310

APPENDIX II
LABORATORY RESULTS



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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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 - 5 15' (H300754-01)

Chloride, SM4500Cl-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, SM4500Cl-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, SM4500Cl-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		

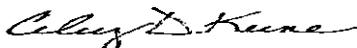
Sample ID: BH - 5 30' (H300754-04)

Chloride, SM4500Cl-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		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 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 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	

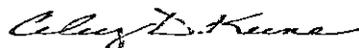
Sample ID: BH - 6 10' (H300754-09)

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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*=Accredited Analyte

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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 - 7 2' (H300754-10)

Chloride, SM4500CI-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, SM4500CI-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, SM4500CI-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, SM4500CI-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, SM4500CI-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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*=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 - 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		

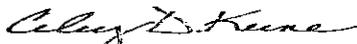
Sample ID: BH - 10 4' (H300754-19)

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		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 MIKE STUBBLEFIELD
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 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 - 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	

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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: 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		

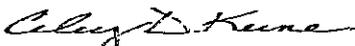
Sample ID: BH - 12 10' (H300754-27)

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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 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						
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

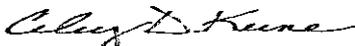
Sample ID: BH - 13 5' (H300754-29)

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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 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		

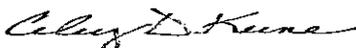
Sample ID: BH - 14 10' (H300754-33)

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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 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)

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*	0.055	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 BTEX	<0.300	0.300	04/04/2013	ND						

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

Chloride, SM4500CI-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		Analyzed By: MS							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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 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 - 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 (PIL) 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		

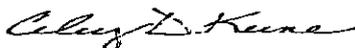
Surrogate: 1-Chlorooctane 87.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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 TALON LPE
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 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 (PID) 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		

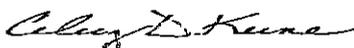
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	121	50.0	04/02/2013	ND	180	90.1	200	9.90		
DRO >C10-C28	2790	50.0	04/02/2013	ND	178	88.8	200	10.9		

Surrogate: 1-Chlorooctane 96.5 % 65.2-140
Surrogate: 1-Chlorooctadecane 148 % 63.6-154

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 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 (PIE) 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						
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

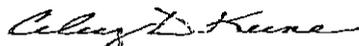
Sample ID: BACKGROUND 0' (H300754-38)

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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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 - T255 - R29E		

Sample ID: BACKGROUND 5' (H300754-39)

Chloride, SM4500CI-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		

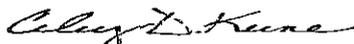
Sample ID: BADCKGROUND 10' (H300754-40)

Chloride, SM4500CI-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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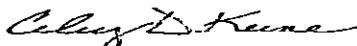
Notes and Definitions

- 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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1-4

Company Name: Tolco/LPE Project Manager: Mike Stuckel Address: 408 WIT TRAIL AVE City: Artesia State: NM Zip: 87210 Phone #: 575-441-725V Fax #: Project #: 701307, 041-01 Project Owner: Project Name: Karlshof Solar Central Battery Project Location: scc 37 TRAIL R25E Sampler Name: Mike Stuckel		Company: Tolco/LPE Attn: Address: City: State: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV ICE / COOL ACID/BASE OTHER:	
Lab I.D. H300154		Sample I.D. 1 BH-5 15' 2 BH-5 20' 3 BH-5 25' 4 BH-5 30' 5 BH-5 40' 6 BH-5 45' 7 BH-6 2' 8 BH-6 5' 9 BH-6 10' 10 BH-7 2'		DATE 3/22/13 11:14 A 3/22/13 11:18 A 3/22/13 11:21 A 3/22/13 11:23 A 3/22/13 11:32 A 3/22/13 11:49 A 3/22/13 12:55 P 3/22/13 1:00 P 3/22/13 1:06 P 3/22/13 1:12 P	
				Total Chloride	

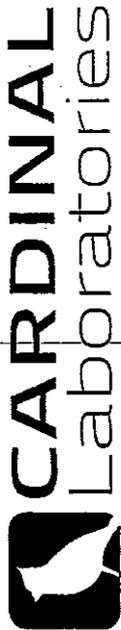
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including transportation, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Mike Stuckel Date: 3/28/13 Time: 10:00 A
 Received By: Sheldon Peterson Date: 3/28/13 Time: 3:40 P
 Delivered By: (Circle One) Sheldon Peterson
 Sampler - UPS - Bus - Other: 50
 Checked By: Sheldon Peterson
 Sample Condition: Cool Intact
 Yes No Yes No

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

REMARKS:

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2-4

Company Name: <i>Tobacco/LEPE</i>		BILL TO		ANALYSIS REQUEST		
Project Manager: <i>MICHAEL STASSER</i>		P.O. #:				
Address: <i>408 WIT TEXAS AVE</i>		Company: <i>Tobacco/LEPE</i>				
City: <i>ALICIA</i>		Attn:				
State: <i>NM</i>		Address:				
Zip: <i>88210</i>		City:				
Phone #: <i>575-444-2251</i>		State:				
Fax #: <i>575-444-2251</i>		Zip:				
Project #: <i>701309, 091.01</i>		Phone #:				
Project Owner:		Fax #:				
Project Name: <i>Isakhsah, Central Battery</i>						
Project Location: <i>see 31235-029E</i>						
Sampler Name: <i>MICHAEL STASSER</i>						
FOR LAB USE ONLY						
Lab I.D.	Sample I.D.	MATRIX	PRESERV.	SAMPLING	DATE	TIME
<i>H200734</i>		WASTEWATER	ICE/COOL		<i>3/22/17</i>	<i>11:16 P</i>
<i>11</i>	<i>GH-7 5'</i>	GROUNDWATER	ACID/BASE		<i>3/22/17</i>	<i>11:22 P</i>
<i>12</i>	<i>GH-7 10'</i>	# CONTAINERS	OTHER:		<i>3/22/17</i>	<i>11:24 P</i>
<i>13</i>	<i>GH-8 2'</i>	(G) RAB OR (C) OMP.	OTHER:		<i>3/22/17</i>	<i>11:26 P</i>
<i>14</i>	<i>GH-8 5'</i>	SLUDGE	OTHER:		<i>3/22/17</i>	<i>11:38 P</i>
<i>15</i>	<i>GH-8 10'</i>	SOIL	OTHER:		<i>3/22/17</i>	<i>11:31 P</i>
<i>16</i>	<i>GH-9 2'</i>	OIL	OTHER:		<i>3/22/17</i>	<i>11:33 P</i>
<i>17</i>	<i>GH-9 5'</i>	WASTEWATER	OTHER:		<i>3/22/17</i>	<i>11:35 P</i>
<i>18</i>	<i>GH-9 10'</i>	GROUNDWATER	OTHER:		<i>3/22/17</i>	<i>11:38 P</i>
<i>19</i>	<i>GH-10 4'</i>	SLUDGE	OTHER:		<i>3/22/17</i>	<i>11:38 P</i>
<i>20</i>	<i>GH-10 5'</i>	SOIL	OTHER:		<i>3/22/17</i>	<i>11:39 P</i>

PLEASE NOTE: Liability and Damages. Cardinal's liability and damage exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Consensus of whether such claim is based upon any of the above stated releases or otherwise.

Relinquished By: *MICHAEL STASSER* Date: *3/22/17*
 Time: *10:00 a*

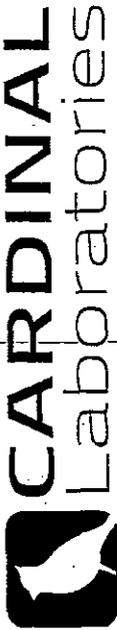
Received By: *Shelden Peterson*
 Date: *03/28/17*
 Time: *3:40*

Relinquished By: *Shelden Peterson*
 Delivered By: (Circle One) *Shelden Peterson*
 Sampler - UPS - Bus - Other: *59*

Checked By: *[Signature]*
 Sample Condition: Cool Intact
 Yes No

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

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 # 2/2



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Tobolsky</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Maria Stokstad</u>	P.O. #:	Company: <u>Tobolsky</u>	Attn: <u>LPE</u>		
Address: <u>408 Whit Trax Ave</u>	State: <u>NM</u> Zip: <u>88210</u>				
City: <u>Alameda</u>					
Phone #: <u>505-441-2254</u>	Fax #:				
Project #: <u>201309-041-01</u>	Project Owner:				
Project Name: <u>Karlshof Solar Central Battery</u>					
Project Location: <u>scc 37 T355-R25E</u>					
Sampler Name: <u>Maria Stokstad</u>					

Lab I.D.	Sample I.D.	MATRIX			PRESERV.			SAMPLING			
		GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME
H300754											
31	8H-14 0'									3/22/13	3:55 P
32	8H-14 5'									3/22/13	3:52 P
33	8H-14 10'									3/22/13	4:00 P
34	5-15										4:10 P
35	5-16										4:18 P
36	5-17 2'										4:22 P
37	5-18										4:27 P
38	Background 0'										4:35 P
39	Background 5'										4:32 P
40	Background 10'										4:40 P

PLEASE NOTE: Liability and Damages: Cardinal's liability and certain's exclusive remedy for any chain custody whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other claims whatsoever shall be deemed waived, unless made in writing and received by Cardinal within 30 days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business losses, loss of profits, or loss of data or other information or otherwise.

Relinquished By: Maria Stokstad Date: 3/22/13 Time: 10:00 A

Received By: Sheldon Anderson Date: 3/22/13 Time: 3:40

Delivered By: Sheldon Anderson

Sampler - UPS - Bus - Other:

Checked By: Sheldon Anderson

Sample Condition: Cool Intact

Yes No Yes No

Relinquished By: (Circle One)

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

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

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.

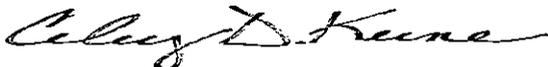
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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,



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:	03/07/2013	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 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

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		

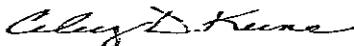
Sample ID: S-4 12' (H300581-07)

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, Lab Director/Quality Manager

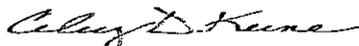
Notes and Definitions

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

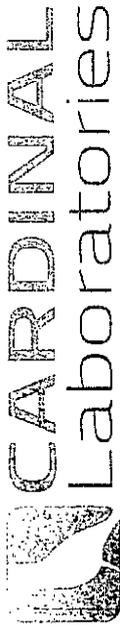
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Talon LPE</u> Project Manager: <u>Mike Stubbelfield</u> Address: <u>408 West Trent Ave.</u> State: <u>NM</u> Zip: <u>88210</u> City: <u>Artesia</u> Phone #: <u>505-441-7254</u> Fax #: _____ Project #: <u>201307_041.01</u> Project Owner: <u>Lime Rock Br - LLC</u> Project Name: <u>Katibed Corral Central Battery</u> Project Location: <u>sec. 2 - T 25S - R 29E</u> Sampler Name: <u>Mike Stubbelfield</u>		BILL TO P.O. #: _____ Company: <u>Talon LPE</u> Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____		ANALYSIS REQUEST	
FOR LAB USE ONLY Lab I.D. <u>1300581</u> Sample I.D. _____		MATRIX <input type="checkbox"/> SOIL <input type="checkbox"/> WASTEWATER <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> (G) PAB OR (C) OMP		PRESERV <input type="checkbox"/> OTHER: <input type="checkbox"/> ACID/BASE <input type="checkbox"/> ICE/COOL <input type="checkbox"/> OTHER:	
SAMPLING DATE TIME 1 <u>5-4</u> <u>4</u> <u>3/6/13</u> <u>4:00P</u> 2 <u>5-4</u> <u>6</u> <u>4/6/13</u> <u>4:00P</u> 3 <u>5-4</u> <u>6</u> <u>3/6/13</u> <u>4:12P</u> 4 <u>5-4</u> <u>9</u> <u>3/6/13</u> <u>4:20P</u> 5 <u>5-4</u> <u>8</u> <u>2/6/13</u> <u>4:35P</u> 6 <u>5-4</u> <u>10</u> <u>3/6/13</u> <u>4:48P</u> 7 <u>6-4</u> <u>12</u> <u>3/6/13</u> <u>5:05P</u>		OTHER: <input type="checkbox"/> SLUDGE <input type="checkbox"/> OIL <input type="checkbox"/> WASTEWATER <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> # CONTAINERS <input type="checkbox"/> (G) PAB OR (C) OMP		REMARKS: <u>Total chloridy</u>	

PLEASE NOTE: Liability and Damages, Credentials Validity and Client's exclusive remedy for any claim arising out of this analysis shall be limited to the amount paid by the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analysis. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or supervisors, regardless of or related to the performance of services rendered by Cardinal, except those of a nature, such claim is based upon any of the claims stated to occur or otherwise.

Relinquished By: <u>Mike Stubbelfield</u> Date: <u>3/7/2013</u> Time: <u>2:10</u>	Received By: <u>Debi Jensen</u> Date: _____ Time: _____	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - <input checked="" type="radio"/> Other	Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> (Initials) <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Checked By: <u>Debi Jensen</u>

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



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,

A handwritten signature in cursive script that reads "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:	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 (PID) 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