



Electronic Correspondence

October 20, 2014

Mr. Mike Bratcher
State of New Mexico
Oil Conservation Division
811 S. 1st Street
Artesia, NM 88210
mike.bratcher@state.nm.us

Re: Corrective Action Plan Amendment
LINN Energy, Barclay State Battery
Legal: Unit I Section 2 T23S R31E, 660 FSL & 1980 FWL, Eddy County, NM
Lat-Long: 32.331253 – 103.742502
Event No. (OCD): 2RP-1315

Dear Mike:

Etech Environmental & Safety Solutions, Inc. (Etech) submits the following amended corrective action plan on the aforementioned site for your review and approval.

Current Project Status

1. The status of the remediation of the site to date is as follows:
2. The impacted area on the north side of the tanks, SP1, SP2, SP3 (approximately 146' by 25') has been excavated to a depth of 3 feet vertical. Around the tanks and on the south side of the tanks, SP4, SP5, SP6 (146' by 6') due to safety reasons, the excavation is at a depth of 8".
3. There are numerous lines and an electric pole within the confines of the south side of the excavation. Also, the area between the tanks and the road is approx. 6'.
4. The bottom of the excavation still has elevated levels of chlorides ranging from 5840 to 5640 mg/kg. A map showing the sample locations and analytical results along with a copy of the analysis is attached.
5. The proximity of the tanks, lines, and electric pole has restricted further excavation due to safety concerns. Two (2) soils borings via hand auger were advanced within the bottom of the excavation to attempt to delineate the vertical extent of the impact. Refusal was encountered at 4' for SP4 (5840 mg/kg) and 10' for SP5 (5680 mg/kg). The

chlorides were still above regulatory threshold levels. The results of the laboratory analysis of samples collected from the bottom of the soil borings are attached.

A photograph of the site is provided below:



Proposed Corrective Action

LINN is proposing an amendment to the corrective action to this site. The factors used to determine this corrective action include first the safety of all persons related to performing additional excavation within the site. In addition, based upon available data, groundwater in the area is believed to be in excess of 150 feet. The corrective actions evaluated for the site (based upon the above) are presented as follows:

1. Backfill with clean compacted fill material, and wet compact.
2. Apply a calcium amendment to the bottom of the excavation (gypsum) then backfill with clean compacted fill material.
3. Installation of a 20 mil polyethylene liner in the bottom of the excavation, then backfill with clean compacted fill material.

After review of the above options, LINN believes, the best approach is Option 1, because of the shallow depth of the excavation.

Thank you for your assistance on this matter. Also, attached is the initial C-141 for your reference. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact Mr. Brian Wall at (575) 738-1739 (Office) or via email at bwall@linnenergy.com or myself at (432) 563-2200 (office) or via email at kit@etechnv.com.

Respectfully:

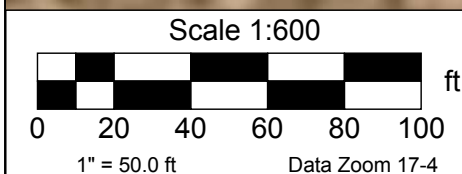


Kit Prichard
Environmental Professional



Barclay State Battery Analytical Results October 22, 2014			
Results			
Sample Date	Sample I.D.	Depth (Feet)	Chlorides (mg/kg)
9/30/2014	SP1	3	368
9/30/2014	SP2	4	736
9/30/2014	SP3	1.5	<16.0
9/30/2014	SP4	1	5840
9/30/2014	SP5	.5	5680
9/30/2014	SP6	.5	848

Barclay State Battery Analytical Results October 22, 2014								
Sample Information			TPH Results (mg/kg)		BTEX Results (mg/L)			
Date	Sample I.D.	Depth (ft)	GRO	DRO	Benzene	Toluene	Ethylbenzene	Total Xylenes
10/21/14	SP1	3	<10.0	<10.0	<0.05	<0.05	<0.05	<0.15
10/21/14	SP2	4	<10.0	<10.0	<0.05	<0.05	<0.05	<0.15
10/21/14	SP3	1.5	<10.0	144.0	<0.05	<0.05	<0.05	<0.15
10/21/14	SP4	1	<10.0	136.0	<0.05	<0.05	<0.05	<0.15
10/21/14	SP5	.5	<10.0	188.0	<0.05	<0.05	<0.05	<0.15
10/21/14	SP6	.5	<10.0	<10.0	<0.05	<0.05	<0.05	<0.15



LINN Energy
Barclay State Battery
Sample Points Map



Data use subject to license.

© DeLorme. XMap® 8.

www.delorme.com

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 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating	Contact: Bob Akin	
Address: 2130 W Bender Hobbs, NM 88260	Telephone No.: 575-738-1739	
Facility Name: Barclay State Battery - Barclay State #2	Facility Type: Battery	
Surface Owner: State	Mineral Owner: State	API No.: 3001529590

LOCATION OF RELEASE

Unit Letter J	Section 02	Township 23S	Range 31E	Feet from the 1980	North/South Line South	Feet from the 1980	East/West Line East	County Eddy
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Latitude: 32.33163 Longitude: -103.74577

NATURE OF RELEASE

Type of Release: Oil / Produced Water	Volume of Release: 15 bbls / 400 bbls	Volume Recovered: 10 bbls / 385 bbls
Source of Release: Pump	Date and Hour of Occurrence: 10/05/2012 7:30am	Date and Hour of Discovery: 10/05/2012 8am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Randy Dade- NM OCD	
By Whom? Bob Akin	Date and Hour 10/05/2012 2:19pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: RECEIVED PHONE CALL THAT TANKS WERE OVER FLOWING. ARRIVED TO LOCATION AND H-PUMP WAS DOWN ON DIGITAL OVERLOAD.

Describe Area Affected and Cleanup Action Taken.* : CALLED FOR A VAC TRUCK AND ELECTRICIAN.ALL FLUID CONTAINED IN FIREWALL. Further remedial action pending.

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: <i>Bob Akin</i>	OIL CONSERVATION DIVISION	
Printed Name: Bob Akin	Approved by District Supervisor:	
Title: Production Forman	Approval Date:	Expiration Date:
E-mail Address: rakin@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 10/08/2012	Phone: 575-390-8007	

* Attach Additional Sheets If Necessary



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

October 22, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: BARCLAY STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/21/14 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:

ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	10/21/2014	Sampling Date:	10/21/2014
Reported:	10/22/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	253-4581-005	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY		

Sample ID: SP 1 3' (H403233-01)

BTEX 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2014	ND	1.96	97.8	2.00	3.91		
Toluene*	<0.050	0.050	10/22/2014	ND	1.86	92.9	2.00	5.87		
Ethylbenzene*	<0.050	0.050	10/22/2014	ND	1.77	88.4	2.00	5.72		
Total Xylenes*	<0.150	0.150	10/22/2014	ND	5.23	87.2	6.00	5.07		
Total BTEX	<0.300	0.300	10/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

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	10/22/2014	ND	203	101	200	1.94		
DRO >C10-C28	<10.0	10.0	10/22/2014	ND	205	102	200	2.91		

Surrogate: 1-Chlorooctane 117 % 47.2-157

Surrogate: 1-Chlorooctadecane 128 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	10/21/2014	Sampling Date:	10/21/2014
Reported:	10/22/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	253-4581-005	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY		

Sample ID: SP 2 3-4' (H403233-02)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2014	ND	1.96	97.8	2.00	3.91		
Toluene*	<0.050	0.050	10/22/2014	ND	1.86	92.9	2.00	5.87		
Ethylbenzene*	<0.050	0.050	10/22/2014	ND	1.77	88.4	2.00	5.72		
Total Xylenes*	<0.150	0.150	10/22/2014	ND	5.23	87.2	6.00	5.07		
Total BTEX	<0.300	0.300	10/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

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	10/22/2014	ND	203	101	200	1.94		
DRO >C10-C28	<10.0	10.0	10/22/2014	ND	205	102	200	2.91		

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 129 % 52.1-176

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 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	10/21/2014	Sampling Date:	10/21/2014
Reported:	10/22/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	253-4581-005	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY		

Sample ID: SP 3 1.5' (H403233-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	3.68		
Toluene*	<0.050	0.050	10/22/2014	ND	1.88	93.8	2.00	3.96		
Ethylbenzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	4.16		
Total Xylenes*	<0.150	0.150	10/22/2014	ND	5.50	91.7	6.00	4.24		
Total BTEX	<0.300	0.300	10/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

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	10/22/2014	ND	203	101	200	1.94	
DRO >C10-C28	144	10.0	10/22/2014	ND	205	102	200	2.91	

Surrogate: 1-Chlorooctane 119 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	10/21/2014	Sampling Date:	10/21/2014
Reported:	10/22/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	253-4581-005	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY		

Sample ID: SP 4 1' (H403233-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	3.68		
Toluene*	<0.050	0.050	10/22/2014	ND	1.88	93.8	2.00	3.96		
Ethylbenzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	4.16		
Total Xylenes*	<0.150	0.150	10/22/2014	ND	5.50	91.7	6.00	4.24		
Total BTEX	<0.300	0.300	10/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

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	10/22/2014	ND	203	101	200	1.94		
DRO >C10-C28	136	10.0	10/22/2014	ND	205	102	200	2.91		

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	10/21/2014	Sampling Date:	10/21/2014
Reported:	10/22/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	253-4581-005	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY		

Sample ID: SP 5 6" (H403233-05)

BTEx 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	3.68		
Toluene*	<0.050	0.050	10/22/2014	ND	1.88	93.8	2.00	3.96		
Ethylbenzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	4.16		
Total Xylenes*	<0.150	0.150	10/22/2014	ND	5.50	91.7	6.00	4.24		
Total BTEX	<0.300	0.300	10/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

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	10/22/2014	ND	203	101	200	1.94		
DRO >C10-C28	188	10.0	10/22/2014	ND	205	102	200	2.91		

Surrogate: 1-Chlorooctane 122 % 47.2-157

Surrogate: 1-Chlorooctadecane 142 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	10/21/2014	Sampling Date:	10/21/2014
Reported:	10/22/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	253-4581-005	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY		

Sample ID: SP 6 6" (H403233-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	3.68		
Toluene*	<0.050	0.050	10/22/2014	ND	1.88	93.8	2.00	3.96		
Ethylbenzene*	<0.050	0.050	10/22/2014	ND	1.88	94.1	2.00	4.16		
Total Xylenes*	<0.150	0.150	10/22/2014	ND	5.50	91.7	6.00	4.24		
Total BTEX	<0.300	0.300	10/22/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

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	10/22/2014	ND	203	101	200	1.94		
DRO >C10-C28	<10.0	10.0	10/22/2014	ND	205	102	200	2.91		

Surrogate: 1-Chlorooctane 96.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 108 % 52.1-176

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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

Hand

October 08, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: BARCLAY STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/07/14 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	10/07/2014	Sampling Date:	10/07/2014
Reported:	10/08/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	253-4581-005	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY		

Sample ID: SP 4 @ 4' (H403073-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	10/08/2014	ND	400	100	400	0.00		

Sample ID: SP 5 10' REFUSAL (H403073-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/08/2014	ND	400	100	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

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

5



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

October 01, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: BARCLAY STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/30/14 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received: 09/30/2014
Reported: 10/01/2014
Project Name: BARCLAY STATE BATTERY
Project Number: 253-4581-005
Project Location: EDDY COUNTY

Sampling Date: 09/30/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: SP 1 3' (H402983-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/01/2014	ND	416	104	400	0.00	

Sample ID: SP 2 3-4' (H402983-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/01/2014	ND	400	100	400	3.92	

Sample ID: SP 3 1.5' (H402983-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/01/2014	ND	400	100	400	3.92	

Sample ID: SP 4 1' (H402983-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	10/01/2014	ND	400	100	400	3.92	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	09/30/2014	Sampling Date:	09/30/2014
Reported:	10/01/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	Cool & Intact
Project Number:	253-4581-005	Sample Received By:	Celey D. Keene
Project Location:	EDDY COUNTY		

Sample ID: SP 5 6" (H402983-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	10/01/2014	ND	400	100	400	3.92		

Sample ID: SP 6 6" (H402983-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	10/01/2014	ND	400	100	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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

BILL TO

ANALYSIS REQUEST

Company Name: E-Tech Environmental

Project Manager: Kent Pritchard

Address: State: Zip:

City: Fax #:

Phone #:

Project #: 253-4581-005 Project Owner:

Project Name: Brady State Rafter

Project Location: Caddo NM

Sample Name: ABC F

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

01 SP1 3'

02 SP2 3-4'

03 SP3 1.5'

04 SP4 1'

05 SP5 6"

06 SP6 6"

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

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09-30 1400

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

September 08, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: BARCLAY STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/02/14 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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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:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	09/02/2014	Sampling Date:	09/02/2014
Reported:	09/08/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	** (See Notes)
Project Number:	253-4581-005	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP 1 @ 6' (H402698-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2014	ND	1.66	83.2	2.00	3.30	
Toluene*	<0.050	0.050	09/06/2014	ND	1.55	77.3	2.00	3.84	
Ethylbenzene*	<0.050	0.050	09/06/2014	ND	1.45	72.6	2.00	3.80	
Total Xylenes*	<0.150	0.150	09/06/2014	ND	4.42	73.7	6.00	4.30	
Total BTEX	<0.300	0.300	09/06/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 89.4-126

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	09/04/2014	ND	166	83.2	200	2.57	
DRO >C10-C28	<10.0	10.0	09/04/2014	ND	221	110	200	3.80	

Surrogate: 1-Chlorooctane 99.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	09/02/2014	Sampling Date:	09/02/2014
Reported:	09/08/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	** (See Notes)
Project Number:	253-4581-005	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP 2 @ 9' (H402698-02)

BTEx 8021B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2014	ND	1.66	83.2	2.00	3.30		
Toluene*	<0.050	0.050	09/06/2014	ND	1.55	77.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/06/2014	ND	1.45	72.6	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/06/2014	ND	4.42	73.7	6.00	4.30		
Total BTEX	<0.300	0.300	09/06/2014	ND						

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

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	09/04/2014	ND	166	83.2	200	2.57		
DRO >C10-C28	69.6	10.0	09/04/2014	ND	221	110	200	3.80		

Surrogate: 1-Chlorooctane 98.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	09/02/2014	Sampling Date:	09/02/2014
Reported:	09/08/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	** (See Notes)
Project Number:	253-4581-005	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP 3 @ 6' (H402698-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2014	ND	1.66	83.2	2.00	3.30		
Toluene*	<0.050	0.050	09/06/2014	ND	1.55	77.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/06/2014	ND	1.45	72.6	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/06/2014	ND	4.42	73.7	6.00	4.30		
Total BTEx	<0.300	0.300	09/06/2014	ND						

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

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	09/04/2014	ND	166	83.2	200	2.57		
DRO >C10-C28	<10.0	10.0	09/04/2014	ND	221	110	200	3.80		

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	09/02/2014	Sampling Date:	09/02/2014
Reported:	09/08/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	** (See Notes)
Project Number:	253-4581-005	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP 4 @ 12' (H402698-04)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2014	ND	1.66	83.2	2.00	3.30		
Toluene*	<0.050	0.050	09/06/2014	ND	1.55	77.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/06/2014	ND	1.45	72.6	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/06/2014	ND	4.42	73.7	6.00	4.30		
Total BTEX	<0.300	0.300	09/06/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 89.4-126

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	09/04/2014	ND	166	83.2	200	2.57		
DRO >C10-C28	157	10.0	09/04/2014	ND	221	110	200	3.80		

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
KIT PRICHARD
P. O. BOX 8469
MIDLAND TX, 79708
Fax To: (432) 563-2213

Received:	09/02/2014	Sampling Date:	09/02/2014
Reported:	09/08/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	** (See Notes)
Project Number:	253-4581-005	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP 5 @ 10' (H402698-05)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/06/2014	ND	1.66	83.2	2.00	3.30		
Toluene*	<0.050	0.050	09/06/2014	ND	1.55	77.3	2.00	3.84		
Ethylbenzene*	<0.050	0.050	09/06/2014	ND	1.45	72.6	2.00	3.80		
Total Xylenes*	<0.150	0.150	09/06/2014	ND	4.42	73.7	6.00	4.30		
Total BTEX	<0.300	0.300	09/06/2014	ND						

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

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	09/04/2014	ND	166	83.2	200	2.57		
DRO >C10-C28	10.8	10.0	09/04/2014	ND	221	110	200	3.80		

Surrogate: 1-Chlorooctane 93.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 ETECH Environmental & Safety Solutions, Inc.
 KIT PRICHARD
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	09/02/2014	Sampling Date:	09/02/2014
Reported:	09/08/2014	Sampling Type:	Soil
Project Name:	BARCLAY STATE BATTERY	Sampling Condition:	** (See Notes)
Project Number:	253-4581-005	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY		

Sample ID: SP 6 @ 6' (H402698-06)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/05/2014	ND	1.91	95.6	2.00	6.31		
Toluene*	<0.050	0.050	09/05/2014	ND	1.79	89.3	2.00	5.70		
Ethylbenzene*	<0.050	0.050	09/05/2014	ND	1.70	84.8	2.00	5.15		
Total Xylenes*	<0.150	0.150	09/05/2014	ND	5.20	86.7	6.00	4.42		
Total BTEX	<0.300	0.300	09/05/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

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	09/04/2014	ND	166	83.2	200	2.57	
DRO >C10-C28	<10.0	10.0	09/04/2014	ND	221	110	200	3.80	

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO					ANALYSIS REQUEST						
Company Name: Etech					P.O. #:	253-4581-005					
Project Manager: Kit Pri-Chard					Company:	Linn Energy					
Address:					Attn:						
City:					Address:						
Phone #: _____ State: _____ Zip: _____					State:						
Fax #: _____					Zip:						
Project #: 253-4581-005 Project Owner:					City:						
Project Location: Barclay State Battery					State:						
Sample Name: Terry Osborn					Phone #:						
FOR LAB USE ONLY					Fax #:						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING					
				GROUNDWATER							
				WASTEWATER							
				SOIL							
				OIL							
				SLUDGE							
				OTHER :							
				ACID/BASE:							
				ICE / COOL							
				OTHER :							
HUC02658	SP1 C'	<input checked="" type="checkbox"/>				DATE	TIME				
	SP2 9'	<input checked="" type="checkbox"/>				9-2-14	1:30	E P H	B T E X		
	SP3 6'	<input checked="" type="checkbox"/>									
	SP4 12'	<input checked="" type="checkbox"/>									
	SP5 10'	<input checked="" type="checkbox"/>									
	SP6 6'	<input checked="" type="checkbox"/>									
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 without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal regardless of whether such claim is passed upon any of the above stated reasons or otherwise.											
Relinquished By: [Signature]					Date:	9-2-14					
Relinquished By: [Signature]					Time:	4:30					
Date:					Received By: [Signature]						
Time:					Cool		Intact		CHECKED BY: [Initials]		
Delivered By: (Circle One)					<input checked="" type="checkbox"/> Yes		<input checked="" type="checkbox"/> No				
Sampler - UPS - Bus - Other:					<input checked="" type="checkbox"/> Cool		<input checked="" type="checkbox"/> Intact				
Remarks:					Phone Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		
to lab, PHA					Fax Result:		<input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:		

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