



### **Electronic Correspondence**

November 7, 2012

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

Re: Backfill Request

ACD Oilfield Services, LINN Energy, VL Foster Battery

API No.: 30-015-05206

Legal: Unit J, Section 17, T17S, R31E, Eddy Co., NM

GPS: N32.83476, W103.88999

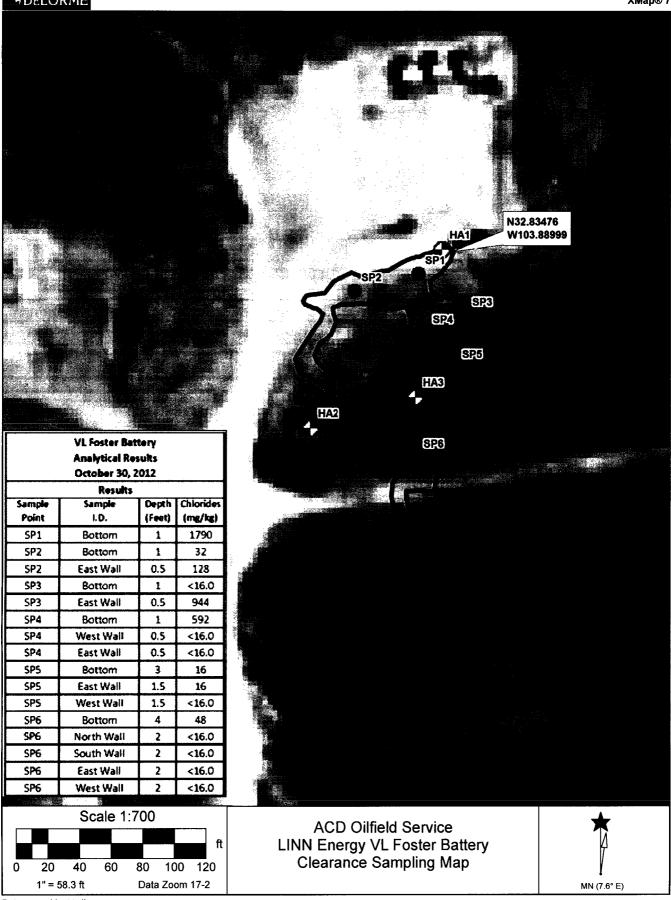
### Dear Mike & Terry:

- 1. Attached is the sample points map and analytical data for the clearance sampling of the VL Foster Battery.
- Grab samples were collected from each corresponding sampling site at depth then
  placed in certified clean jars, labeled, and custody seals applied. Nitrile gloves were
  used and changed during each sample collection, as well as proper decontamination
  procedures.
- 3. Samples were preserved according to the requirements ASATM/EPA requirements. Normal Chain of Custody procedures were observed.
- 4. ACD Oilfield Services is requesting permission to backfill and close the site in accordance with the stipulations for the site.

Thank you for your assistance.

Kit Prichard

Project Manager – Etech Environmental & Safety Solutions, Inc.



Data use subject to license.



October 30, 2012

**FRED HOLMES** 

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: V L FOSTER BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 10/26/12 15:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celeg & Keene

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.

FRED HOLMES
P. O. BOX 8469
MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/26/2012

Reported:

10/30/2012

Project Name:

V L FOSTER BATTERY

Project Number:

323-3607-000

Project Location:

**EDDY COUNTY** 

Sampling Date:

10/26/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

### Sample ID: SP 1 BOTTOM 1' (H202623-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM			<u>.</u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	10/29/2012	ND	400	100	400	0.00	
Sample ID: SP 2 BOTTOM	•	•							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM	······································				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/29/2012	ND	400	100	400	0.00	
Sample ID: SP 2 E WALL	0-6" (H2026	23-03)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/29/2012	ND	400	100	400	0.00	
Sample ID: SP 3 BOTTOM	1' (H20262	23-04)							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2012	ND	400	100	400	0.00	

Cardinal Laboratories \*=Accredited Analyte

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Celey & Kuna

Celey D. Keene, Lab Director/Quality Manager

RECEIVED NOV 13 2012 NMOCD ARTESIA



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

### Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/26/2012

Reported:

10/30/2012

Project Name:

**V L FOSTER BATTERY** 

Project Number: Project Location: 323-3607-000

**EDDY COUNTY** 

Sampling Date: Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes) Jodi Henson

10/26/2012

Sample ID: SP 3 E WALL 0-6" (H202623-05)

Chloride,	SM4500CI-B

Chloride

Chloride

Chloride

Chloride

944

### Analyzed By: HM

Analyte
---------

Result Reporting Limit

Analyzed 10/29/2012 Method Blank ND

BS % Recovery 400

True Value QC 400

**RPD** 0.00

Qualifier

Sample ID: SP 4 BOTTOM 1' (H202623-06)

Chloride, SM4500Cl-B

### mg/kg

### Analyzed By: HM

Analyte

Result Reporting Limit Analyzed 10/29/2012 592 16.0

16.0

Method Blank ND

BS 400 % Recovery

100

100

True Value QC

400

RPD

0.00

Oualifier

Sample ID: SP 4 W WALL 0-6" (H202623-07)

### Chloride, SM4500Cl-B

Analyte

Analyte

### mg/kg

Result

<16.0

<16.0

Result

16.0

### Analyzed By: HM

Reporting Limit

16.0

16.0

Reporting Limit

16.0

Analyzed 10/29/2012 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 0.00

Qualifier

Sample ID: SP 4 E WALL 0-6" (H202623-08)

### Chloride, SM4500Cl-B

### mg/kg

### Analyzed By: HM

### Result Reporting Limit

Analyzed 10/29/2012

10/29/2012

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 0.00 Qualifier

Sample ID: SP 5 BOTTOM 3' (H202623-09)

### Chloride, SM4500Cl-B

### mg/kg

### Analyzed By: HM

	Analyte	
Chloride		

Analyzed

Method Blank BS ND 416

% Recovery 104

True Value QC 400

RPD 3.77 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg to Keens

Celey D. Keene, Lab Director/Quality Manager



### **Analytical Results For:**

ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/26/2012

Reported:

10/30/2012

Project Name:

**V L FOSTER BATTERY** 

Project Number:

323-3607-000

Project Location:

**EDDY COUNTY** 

Sampling Date:

10/26/2012 Soil

Sampling Type: Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

### Sample ID: SP 5 E WALL 1.5' (H202623-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/29/2012	ND	416	104	400	3.77	
Sample ID: SP 5 W WALI	•	•							
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2012	ND	416	104	400	3.77	
Sample ID: SP 6 BOTTON	M 4'(H20262 mg	•	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/29/2012	ND	416	104	400	3.77	
Sample ID: SP 6 N WALL Chloride, SM4500CI-B	. 2' (H20262: mg	-	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2012	ND	416	104	400	3.77	
Sample ID: SP 6 S WALL	2' (H202623	3-14)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2012	ND	416	104	400	3.77	

\*=Accredited Analyte Cardinal Laboratories

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Celeg to Keens





### Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.

FRED HOLMES P. O. BOX 8469 MIDLAND TX, 79708

Fax To:

(432) 563-2213

Received:

10/26/2012

Reported:

10/30/2012

Project Name:

V L FOSTER BATTERY

Project Number:

323-3607-000

Project Location:

**EDDY COUNTY** 

Sampling Date:

10/26/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Qualifier

Jodi Henson

### Sample ID: SP 6 E WALL 2' (H202623-15)

^hlawida	SM4500CI-B	
cnioriae.	3M43VUCI-D	

mg/k

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	(
Chloride	<16.0	16.0	10/29/2012	ND	416	104	400	3.77	

### Sample ID: SP 6 W WALL 2' (H202623-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/30/2012	ND	416	104	400	3.77	

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Celego Keine



### **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 & Keens



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		Sample Condition CHECKOD BY:	Delivered By: (Circle One)
		•	Time: , ,
No Add'I Fax#:	REMARKS:	Senson	William
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	Ch]	BASE COOL	Lab I.D. Sample I.D.
			FOR LAB USE ONL .
	. y	Fax #:	Sampler Name: (**/) ? ((**)
	<u> </u>	Phone #:	Project Location: E J J y Char Y
	5	State: Zip:	Project Name: VI Took . Property
		City:	Project #: 3000 ACC Project Owner:
		Address:	Phone #: Fax #:
		Zip: Attn:	City: State:
		Company:	Address:
	250	P.O.#: 123 32 (7. C	Project Manager: Fred Homes
ANALYSIS REQUEST		BILL TO	Company Name: E+C-5

Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 391-2326



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	のサインス		BILL TO		ANALYSIS REQUEST	
Project Manager:	Fred Holmes			7-010		
Address:			Company: [ 125 h			
City:	State	Zip:	Attn:			
Phone #	Fax#		Address:			
Project #: 523		:	City:			
Project Name: V	0		State: Zip:			
Project Location:	Eddy County		Phone #:	5		
Sampler Name:	1erry 05/0r/		Fax #:	> د.		
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Lab I.D.	Sample I.D.	DWATER WATER		ch/or		
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TLEASE NOTE: LIBBIERY and UNRIBUES. CARDINARS MORE analyses. All claims including those for negligience and ar service. In no event shall Cardinals be liable to incodental affiliables of successors arising out of or related to the perfi-	y and paent's exclusive reme by offier cause whatsoever st or consequental damages in	e to the statem areand weeker based in combat or lost shall be intrined to the ancompliand by the cent to the salt be deerned watered whether the salt be abened whether to the salt because to the salt because t	To Your shall be intrined to the amount place by the cleans is directived by Claridhall within 10 days after completion of directived by clean it is subsided to see of loss of profits mounted by clean it is subsided to see of loss of profits mounted by clean it is subsided to see of loss of profits between the control of the control o	pad by the client to the applicable after completion of the applicable by client its subsidearies of reasons or otherwise.		
Relinquished By:	Date:		OM/DAN	Phone Result: ☐ Yes ☐ No Fax Result: ☐ Yes ☐ No REMARKS:	Add'l Phone #: Add'l Fax #:	- And Annual Control of the second
Relinquished By:	Date:	Received By:				•
Polivorad By: /Circle One		Sample Condition	CERT BY			
Sampler - UPS - Bus - Other	Bus - Other:	Cool Intact				
† Cardinal car	Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-3326	e fax written changes to [	25) 393 <sup>2</sup> 326			
		+	100			

### Etech Environmental Safety Solutions, Inc.

### **Chloride Probe Field Analysis Sheet**

Client:	ACD Oilfield Services		
Site:	LINN Energy VL Foster Battery	Project Number: 323-3607-000	
Technican:	Terry Osborn	Contaminant: Chlorides	
Instrument:	YSI Chloride Probe	Model/SN: Pro 1030/114100517	
Calibration Ch	ecks Good: Yes No	Claibration Standard: 250	

Date	Sample I.D.	Milliliters of Sample Used	Dilution	Reading (mg/kg)	Final Result (mg/kg)	Notations
10/12/12	HA1 0-1'	10	5.00	1467.00	7,335.00	
10/12/12	HA1 1-2'	10	5.00	40.00	200.00	
10/12/12	HA1 2-3'	10	5.00	45.00	225.00	Refusal
10/12/12	HA2 0-1'	10	5.00	17.00	85.00	
10/12/12	HA2 1-2'	10	5.00	6.00	30.00	
10/12/12	HA2 2-3'	10	5.00	6.00	30.00	
10/12/12	HA2 3-4'	10	5.00	5.00	25.00	
10/12/12	HA2 4-5'	10	5.00	5.00	25.00	
10/12/12	HA2 5-6'	10	5.00	4.00	20.00	
10/12/12	HA2 6-7'	10	5.00	12.00	60.00	
10/12/12	HA2 7-8'	10	5.00	7.00	35.00	
10/12/12	HA2 8-9'	10	5.00	18.00	90.00	
10/12/12	HA2 9-10'	10	5.00	7.00	35.00	
10/12/12	HA2 10-11'	10	5.00	8.00	40.00	
10/12/12	HA2 11-12'	10	5.00	5.00	25.00	Refusal
10/12/12	HA3 0-1'	10	5.00	303.00	1,515.00	
10/12/12	HA3 1-2'	10	5.00	25.00	125.00	
10/12/12	HA3 2-3'	10	5.00	12.00	60.00	
10/12/12	HA3 3-4'	10	5.00	8.00	40.00	
10/12/12	HA3 4-5'	10	5.00	20.00	100.00	
10/12/12	HA3 5-6'	10	5.00	11.00	55.00	Refusal
			_			