



Remediation Summary Report Form

General Information

This section provides general information about the operator and the site where the spill occurred.

Date: September 4, 2012

Client: LINN Energy

Site Name: JL Keel B 61

County: Eddy

State: NM

Site Coordinates Latitude: N32.862985°
Longitude: W103.905658°

Property Owner: BLM

State Report No.: 2RP-908

Release Description and Assessment

The information below is related to the spill (Date, Type, Cause and Quantity) and the area impacted.

Date of Spill: 9/16/11

Type of Spill: ☒ Oil ☒ Produced Water ☐ Condensate ☐ Other (Specify):

Cause of Spill: ☐ Equipment Failure ☐ Valve Failure ☒ Line Rupture ☐ Leaking Tank ☐ Tank Overfill
☐ Other (List):

Other Contributing Factors or Comments:

Quantity Spilled: 5 bbls. **Quantity Recovered:** 0 bbls. **Total Released:** 5 bbls.

Method of Recovery: ☐ Vacuum Truck ☐ Other (Specify):

OCD Notified: ☒ Yes ☐ No **C-141 Completed and Submitted:** ☒ Yes ☐ No

Spill Area Impacted: ☐ Inside Firewall ☐ On Production Pad ☒ In Pasture ☐ In Cultivated Land
☐ Other (List):

Total Square Footage Impacted: 2600 **Estimated Depth:** 1-5' **Volume (Cu. Yds):** 100

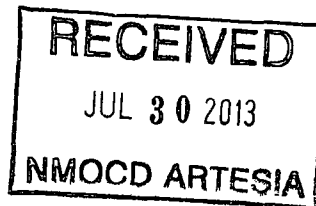
Other Comments:

Remediation Activity Summary

The following summarizes the activities used to remediate the spill.

Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area. During the course of excavation soil samples were screened on site to determine the progress of the excavation.

Impacted soils were transported off-site for disposal at Lea Land Landfill. Once the impacted soils were removed to acceptable levels, the pasture area was backfilled with like materials and smoothed to grade, then seeded with a BLM mix #2 & #4. Water bars were installed to prevent wind and water erosion.



Analytical Summary

Results of analyses following remediation activities are as follows:

Summary of Remediation Sampling Analytical Results						
Total Petroleum Hydrocarbons - [TPH (mg/kg)] & Chlorides [Chl (mg/kg)]						
Sample #	Depth (ft)	Date	TPH C6-C10	TPH C10-C28	Total TPH	Chl
SP1 Bottom	3	2/8/12				240
SP2 Bottom	2	2/8/12				400
SP3 Bottom	1	2/8/12				64
SP4 Bottom	4	2/8/12				32
SP5 Bottom	4	2/8/12				144
SP6 Bottom	6	2/8/12				144
SP7 West Wall	6	2/8/12				816
SP7 North Wall	7	2/8/12				256
SP7 Bottom	7	2/8/12				304
SP8 West Wall	6	2/8/12				48
SP8 Bottom	7	2/8/12				144
SP8 West Wall	7	2/8/12				272
SP3 SW Sidewall	1	2/27/12				<16.0
SP3 NW Sidewall	1	2/27/12				32
SP4 SW Sidewall	2	2/27/12				944
SP5 SW Sidewall	2	2/27/12				<16.0
SP7 NW Sidewall	3	2/27/12				784
SP8 WW Sidewall	3	2/27/12				112

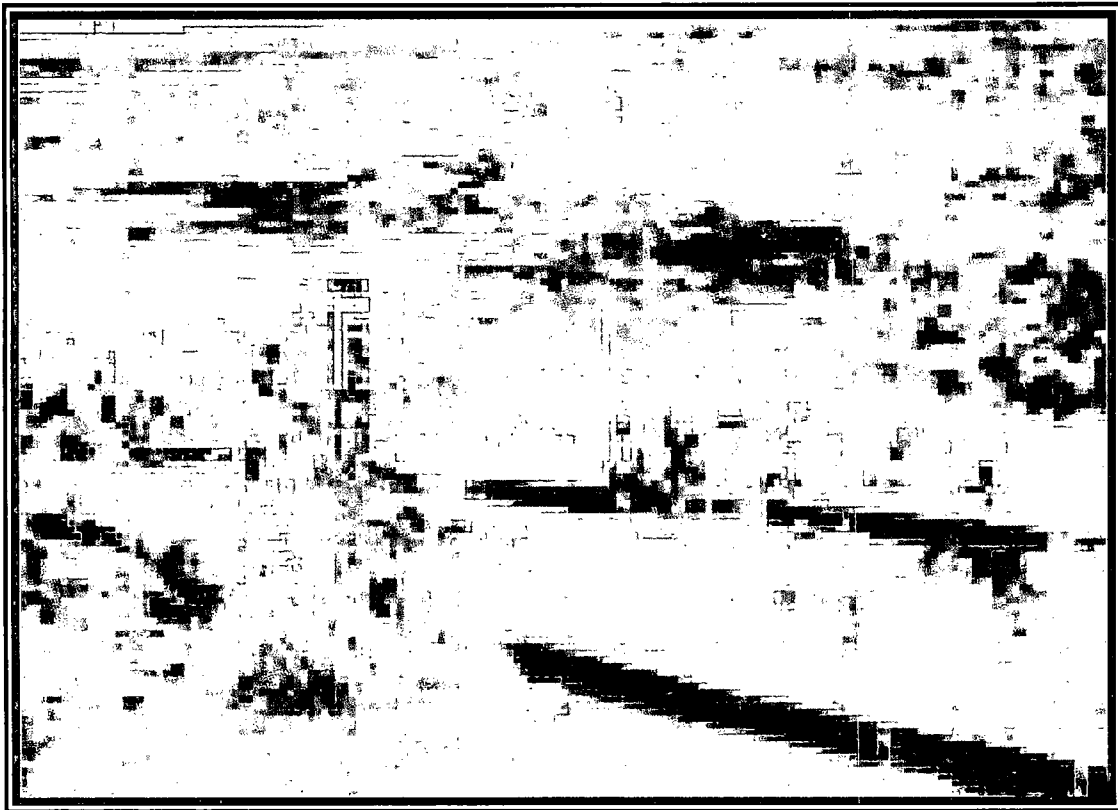
* ND = Non-Detect; concentration below mg/kg.

A review of the analytical data indicated the sample is within the Oil Conservation Division (OCD) regulatory threshold limits. Based upon this information it has been determined that remediation of the site is complete. Copies of analytical reports, seed tickets, photographs, BLM closure and final C-141 are attached.

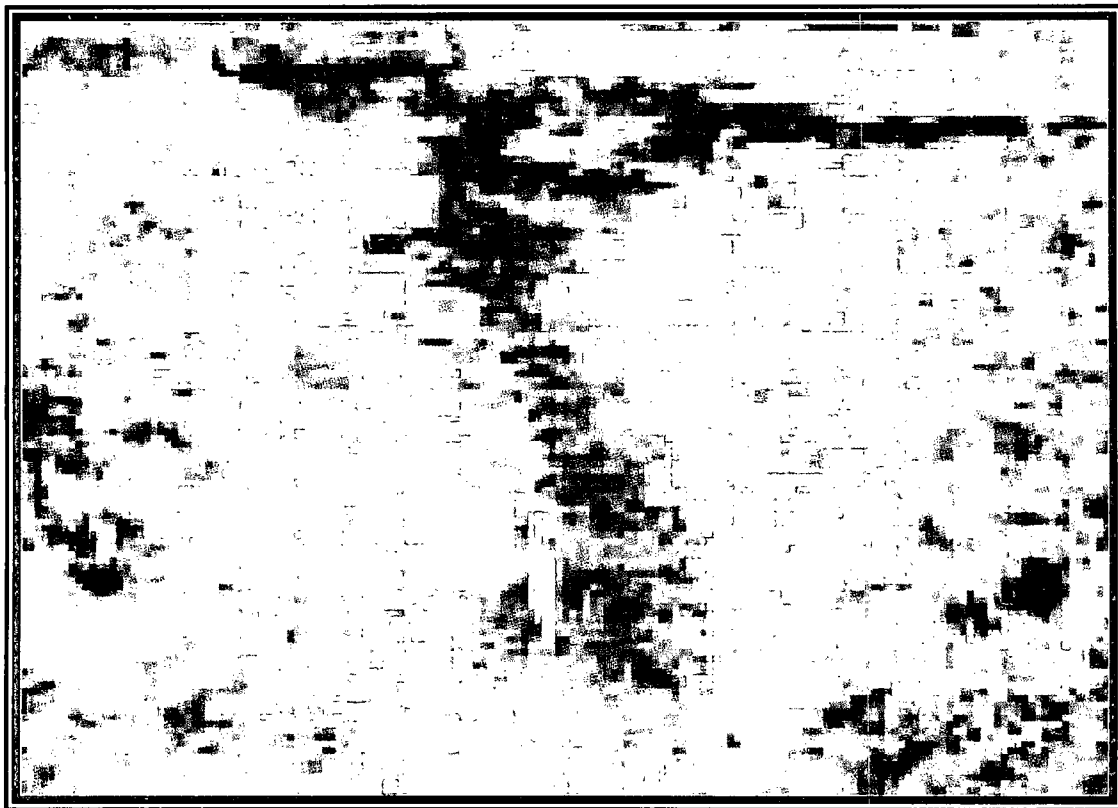
Prepared by:



Kit Prichard
Etech Environmental & Safety Solutions, Inc.



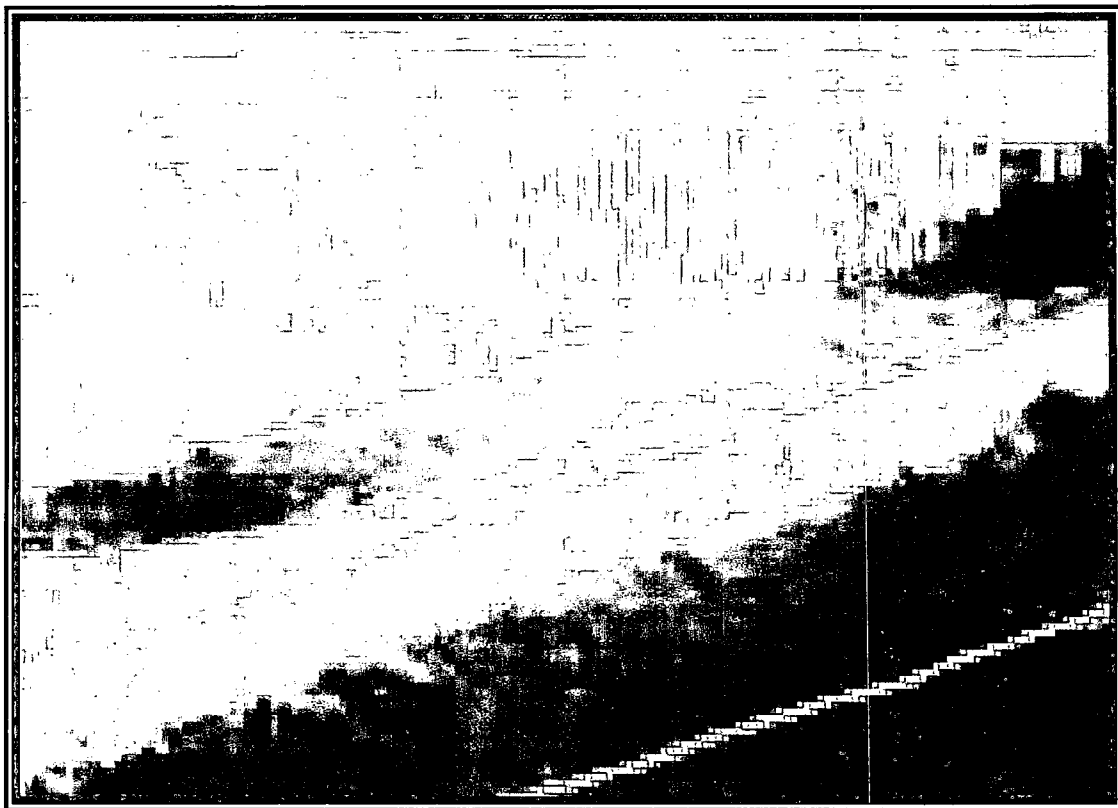
View of the spill area before excavation.



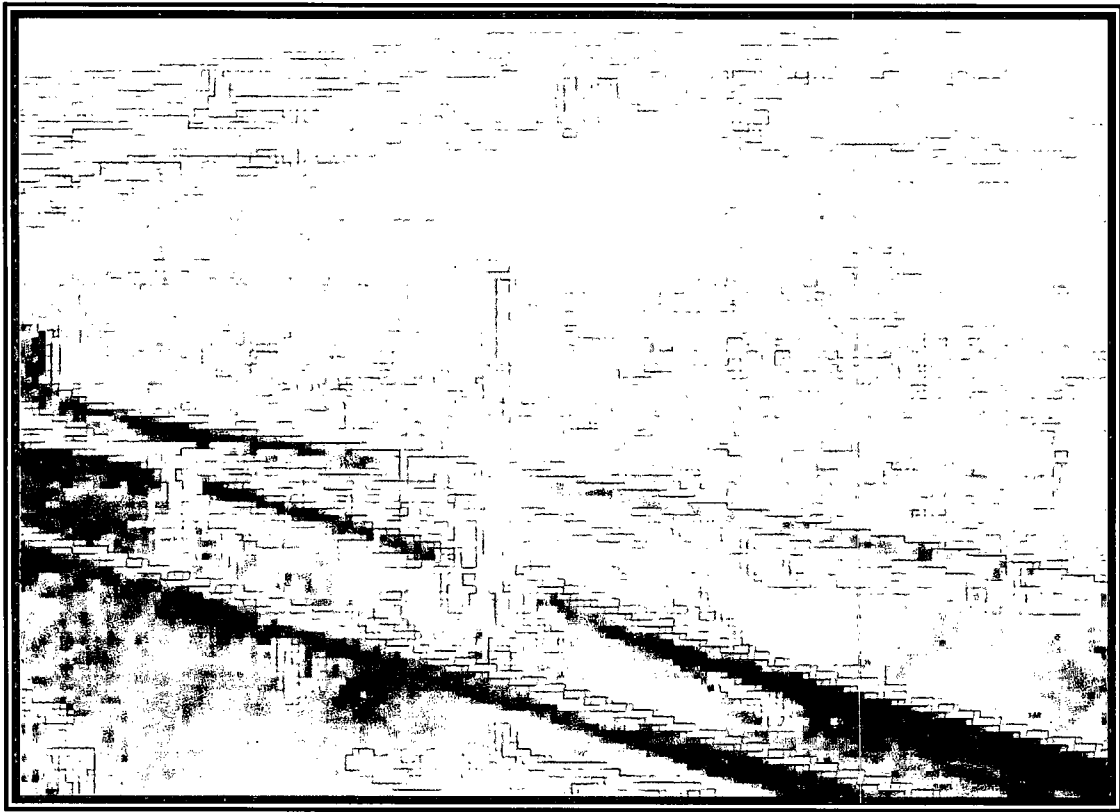
View of the spill area before excavation.



View of the spill area during excavation.



View of the spill area during excavation.



View of the spill area after backfill and seeding.



View of the spill area after backfill and seeding.



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

February 8, 2012

Fred Holmes
ETECH Environmental & Safety Solutions, Inc.
P.O. Box 8469
Midland, TX 79708

Re: J.L Keel B #61

Enclosed are the results of analyses for samples received by the laboratory on 02/03/12 16:40.

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 524.2	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.

Thank you,

Celey D. Keene
Laboratory Director/Quality Manager



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

ANALYTICAL RESULTS FOR
ETECH ENVIRONMENTAL & SAFETY SOLUTIONS, INC.
ATTN: FRED HOLMES
P.O. BOX 8469
MIDLAND, TX 79708
FAX TO: (432) 563-2213

Receiving Date: 02/03/12
Reporting Date: 02/08/12
Project Number: NOT GIVEN
Project Name: J.L. KEEL B #61
Project Location: NOT GIVEN

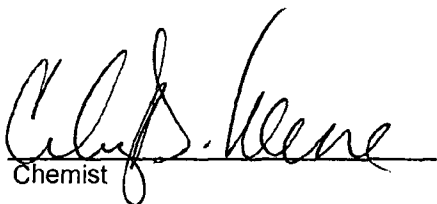
Analysis Date: 02/07/12
Sampling Date: NOT GIVEN
Sample Type: SOIL
Sample Condition: INTACT @ 21°C
Sample Received By: JH
Analyzed By: HM

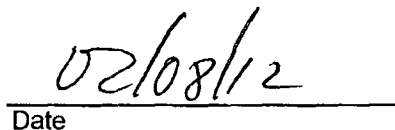
LAB NO.	SAMPLE ID	Cl ⁻ (mg/kg)
H200281-1	SP1 3'	240
H200281-2	SP2 2'	400
H200281-3	SP3 1'	64
H200281-4	SP4 4'	32
H200281-5	SP5 4'	144
H200281-6	SP6 BOTTOM 6'	144
H200281-7	SP7 W WALL 6'	816
H200281-8	SP7 N WALL 7'	256
H200281-9	SP7 BOTTOM 7'	304
H200281-10	SP8 W WALL 6'	48
H200281-11	SP8 BOTTOM 7'	144
H200281-12	SP8 W WALL 7'	272
Quality Control		416
True Value QC		400
% Recovery		104
Relative Percent Difference		<0.1

METHOD: Standard Methods

4500-ClB

Note: Analyses performed on 1:4 w:v aqueous extracts.


Chemist


Date

H200281 Etech

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1 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:						BILL TO								ANALYSIS REQUEST														
Project Manager:						P.O. #:																						
Address:						Company:																						
City:			State:			Zip:			Attn:																			
Phone #:			Fax #:			Address:																						
Project #:			Project Owner:			City:																						
Project Name:						State:						Zip:																
Project Location:						Phone #:																						
Sampler Name:						Fax #:																						
FOR LAB USE ONLY						MATRIX						PRESERV		SAMPLING														
Lab I.D.		Sample I.D.				(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME										
HZ00290																												
1	SP2	3'						/																				
2	SP2	2'						/																				
3	SP3	1'						/																				
4	SP4	4'						/																				
5	SP5	4'						/																				
6	SP6	Duffin 6'						/																				
7	SP7 W Wall	6'						/																				
8	SP7 N Wall	7'						/																				
9	SP7 Bottom	7'						/																				
10	SP8 W Wall	6'						/																				

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Relinquished By: Stephen M... Date: 2/3/12 Time: 9:40	Received By: Jodi Benson Date: Time:	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No REMARKS:	Add'l Phone #: Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	CHECKED BY: [Signature]	

↑ Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



2 of 2

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Etech</u>		BILL TO		ANALYSIS REQUEST																				
Project Manager:		P.O. #:																						
Address:		Company:																						
City: State: Zip:		Attn:																						
Phone #: Fax #:		Address:																						
Project #: Project Owner:		City:																						
Project Name: <u>J L Keel B #61</u>		State: Zip:																						
Project Location:		Phone #:																						
Sampler Name:		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(GRAB OR C) COMP.	# CONTAINERS	MATRIX				PRESERV.		SAMPLING		Chloride												
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL											OTHER:	DATE	TIME
H200281																								
11	SP8 Bottom 2'																							
12	SP8 N Wall 2'																							
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Relinquished By: <u>Stephane</u>		Date: <u>2/3/12</u>		Received By: <u>Jodi Benson</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:														
Time: <u>4:40</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																
Relinquished By:		Date:		Received By:																				
Time:																								
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																
Sampler - UPS - Bus - Other:				Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				<u>JA</u>																

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

March 01, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: J. L. KEEL B #61

Enclosed are the results of analyses for samples received by the laboratory on 02/27/12 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 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, reading "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

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: 02/27/2012
 Reported: 03/01/2012
 Project Name: J. L. KEEL B #61
 Project Number: 253-2981-000
 Project Location: 11 NU 125 TG

 Sampling Date: 02/27/2012
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Hope S. Moreno

Sample ID: SP 3 SW 1' (H200507-01)

Chloride, SM4500Cl-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	02/28/2012	ND	416	104	400	0.00	

Sample ID: SP 3 NW 1' (H200507-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/28/2012	ND	416	104	400	0.00	

Sample ID: SP 4 SW 2' (H200507-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/28/2012	ND	416	104	400	0.00	

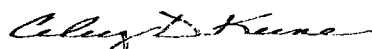
Sample ID: SP 5 SW 2' (H200507-04)

Chloride, SM4500Cl-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	02/28/2012	ND	416	104	400	0.00	

Cardinal Laboratories

* = Accredited Analyte

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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: 02/27/2012
Reported: 03/01/2012
Project Name: J. L. KEEL B #61
Project Number: 253-2981-000
Project Location: 11 NU 125 TG

Sampling Date: 02/27/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Hope S. Moreno

Sample ID: SP 7 NW 3' (H200507-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	02/28/2012	ND	416	104	400	0.00	

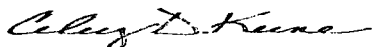
Sample ID: SP 8 WW 3' (H200507-06)

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	02/28/2012	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

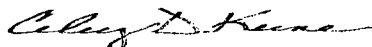
Notes and Definitions

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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Celest 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>Etech</u>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <u>Fred Holmes</u>		P.O. #:		<i>Chlorides</i>																						
Address:		Company:																								
City: State: Zip:		Attn:																								
Phone #: Fax #:		Address:																								
Project #: <u>253-2981-000</u> Project Owner: <u>Ling</u>		City:																								
Project Name: <u>Jh Keel B 61</u>		State: Zip:																								
Project Location: <u>11 NW 125 TG</u>		Phone #:																								
Sampler Name: <u>Stephen M. Ghan</u>		Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME												
<u>1-200507-1</u>	<u>SP 3 SW 1'</u>												<u>12-27</u>	<u>1:00</u>												
<u>- 2</u>	<u>SP 3 NW 1'</u>																									
<u>- 3</u>	<u>SP 4 SW 2'</u>																									
<u>- 4</u>	<u>SP 5 SW 2'</u>																									
<u>- 5</u>	<u>SP 7 NW 3'</u>																									
<u>- 6</u>	<u>SP 8 WW 3'</u>																									

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Relinquished By:	Date: <u>2-27-12</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Stephen M. Ghan</u>	Time: <u>3:30</u>	<u>Hy S. M. Ghan</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool Intact	(Initials)		
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<u>HSN</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

Etech Env.

Project JK 2013 61

Project No. 253-2781-000

Date Started 6-20-12

Date Finished 6-20-12

Bamert Seed Company

1897 CR 1018
806-272-5506

Muleshoe, TX 79347
Texas Permit# 00905

BLM #2 MIX	16 BAGS	43152		
Description	Pure Seed	Germ	Dormant	Origin
VNS PLAINS BRESTLEGRASS (<i>Setaria vulpiseta</i>)	49.36%	4.00%	84.00%	TX
BEND SAND LOWGRASS (<i>Eragrostis trichodes</i>)	24.97%	89.00%	0.00%	TX
SAND DROPSIDE VNS (<i>Sporobolus cryptandrus</i>)	24.63%	5.00%	88.00%	
Purity: 98.96%	Inert Matter: 0.63%	Other Crop Seed: 0.37%	Weed Seed: 0.02%	

Noxious Weeds: None

Test Date: 02-2012

Net Wt: 25#

BLM #4

% Pure Seed	Kind:	% Germ
74.40%	4 Wing Saltbush	67%
7.63%	Alkali Sacaton	89%

Test Date: 3/12
Purity: 82.04%
Inert: 17.92%
Other Crop: 0.01%
Weed: 0.03%
Noxious: None

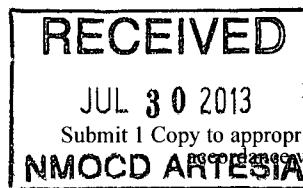
RICHARDSON SEEDS, LTD.
WEGA, TX 79072

Supervisor

Stephen Anderson

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 August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

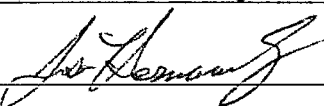
Name of Company: LINN Energy	Contact: Joe Hernandez	
Address: 2130 W Bender Blvd. - Hobbs, NM	Telephone No.: 575-942-8675	
Facility Name: JL Keel B 61 Flowline	Facility Type: Oil Well	
Surface Owner: BLM	Mineral Owner: BLM	Lease No.: LC-029435-B

LOCATION OF RELEASE

Unit Letter H	Section 6	Township 17S	Range 31E	Feet from the 1410	North/South Line N	Feet from the 150	East/West Line E	County Eddy
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Latitude: 32.862985 Longitude: -103.905658

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 5	Volume Recovered: 0
Source of Release: Flowline	Date and Hour of Occurrence: 9/16/11 - 1300	Date and Hour of Discovery: 19/16/11 - 1400
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
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.*: Scale build up in the line forced the line to pressure up and burst. Well shut in and line repaired.		
Describe Area Affected and Cleanup Action Taken.* : Approximately 2600 sqft of surface was impacted. Majority of spill pooled in an area next to the road. Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area. During the course of excavation soil samples were screened on site to determine the progress of the excavation. Impacted soils were transported off-site for disposal at Lea Land Landfill. Once the impacted soils were removed to acceptable levels, the pasture area was backfilled with like materials and smoothed to grade, then seeded with a BLM mix #2 & #4. Water bars were installed to prevent wind and water erosion.		
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: Jose Hernandez	Approved by District Supervisor:	
Title: Foreman	Approval Date:	Expiration Date:
E-mail Address: jhernandez@linneenrgy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: Phone: 575-738-1739		

* Attach Additional Sheets If Necessary