

## Remediation Summary Report Form

### General Information

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

Date: October 22, 2012

Client: LINN Energy

Site Name: Max Friess 2

County: Eddy

State: NM

Site Coordinates Latitude: 32° 48' 46.5"  
Longitude: 103° 54' 13.7"

Property Owner: BLM

State Report No.: NU12045TG

### Release Description and Assessment

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

Date of Spill: 12/13/2011

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: 40 bbls. Quantity Recovered: 35 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: 20,400 Estimated Depth: 1-5' Volume (Cu. Yds): 3022

Other Comments:

### Remediation Activity Summary

The following summarizes the activities used to remediate the spill.

The Max Friess #2 injection line was re-ruptured during the backfill process of the original spill. Backfill operations were halted, and the ruptured line was excavated and repaired. Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area, and the correct sampling procedures were followed.

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

All side walls of the excavation below the regulatory threshold levels of 1,000 mg/kg. The bottom of the excavation still has elevated levels of chlorides ranging from 2320 to 4480 mg/kg. Numerous lines have been encountered within the confines of the excavation including a 3" high pressure fiberglass line, 4" poly to steel line, 4" poly line. The lines traverse through all parts of the excavation. The presence of the lines has restricted further excavation due to safety concerns.

LINN proposed to apply a calcium amendment to the bottom of the excavation (gypsum) then backfill with clean compacted fill material to within 1.5 – 2 feet of surface then complete the backfill with compatible soil which is conducive to growing vegetation.

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	6	4/09/2012				2320
SP1 North Wall	3	4/09/2012				1020
SP1 West Wall	3	4/09/2012				48
SP1 East Wall	3	4/09/2012				336
SP2 Bottom	6	4/09/2012				4040
SP2 East Wall	3	7/18/2012				<16.0
SP2 West Wall	3	4/09/2012				80
SP3 Bottom	6	4/09/2012				1220
SP3 West Wall	3	4/09/2012				160
SP3 East Wall	3	4/09/2012				272
SP4 Bottom	6	4/09/2012				2640
SP4 East Wall	3	4/09/2012				384
SP4 West Wall	3	4/09/2012				1040
SP5 Bottom	6	4/09/2012				4480
SP5 West Wall	3	7/18/2012				16
SP5 East Wall	3	4/09/2012				1090
SP6 Bottom	6	4/09/2012				2800
SP6 West Wall	3	4/09/2012				128
SP6 East Wall	3	7/18/2012				<16.0
SP6 South Wall	3	7/18/2012				912
Samples taken after the second spill						
SP1 Bottom	6	8/09/2012				288
SP1 East Wall	3	8/09/2012				592
SP2 Bottom	6	8/09/2012				3840
SP3 Bottom	6	8/09/2012				240
SP4 Bottom	6	8/09/2012				2200

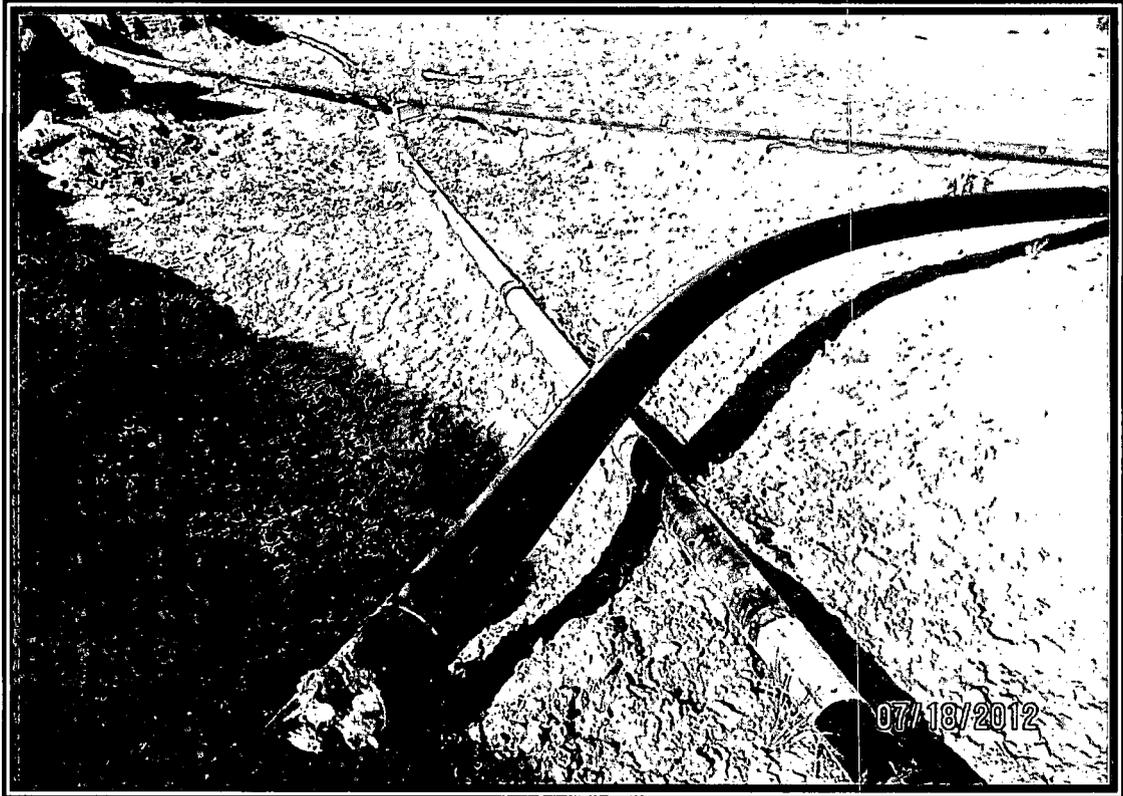
\* ND = Non-Detect; concentration below mg/kg.

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.

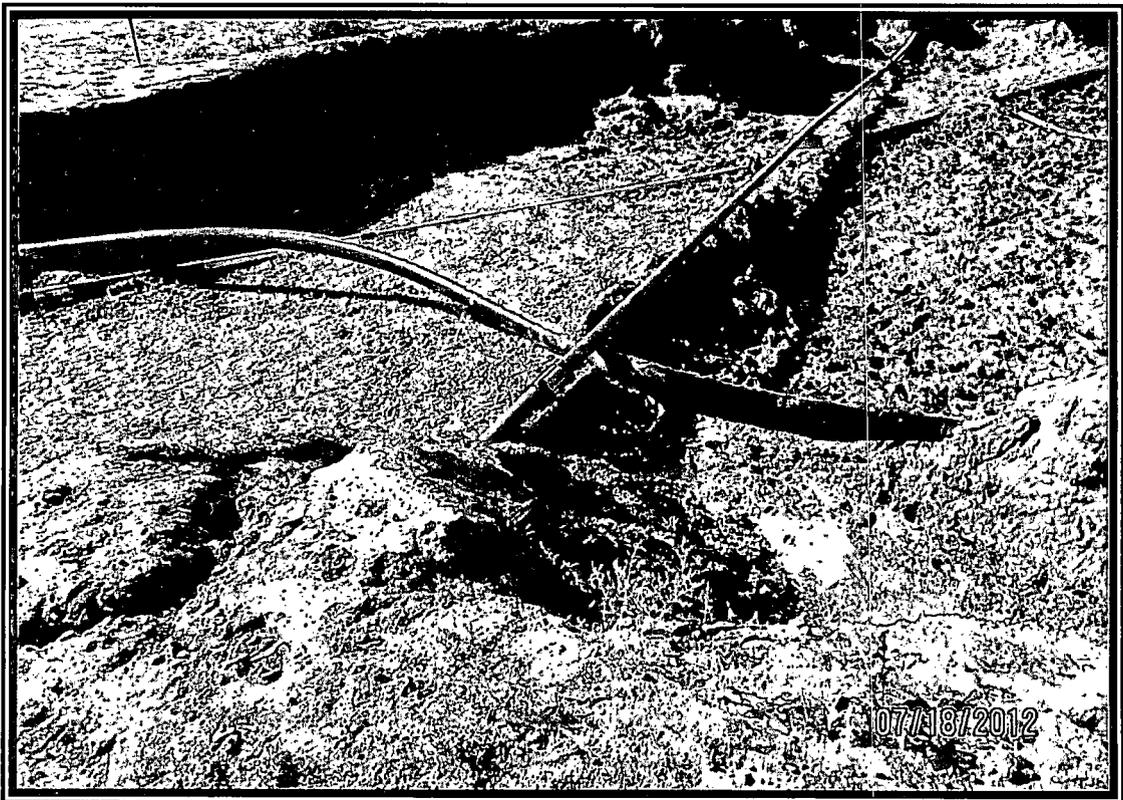
Prepared by:



Kit Prichard  
Etech Environmental & Safety Solutions, Inc.



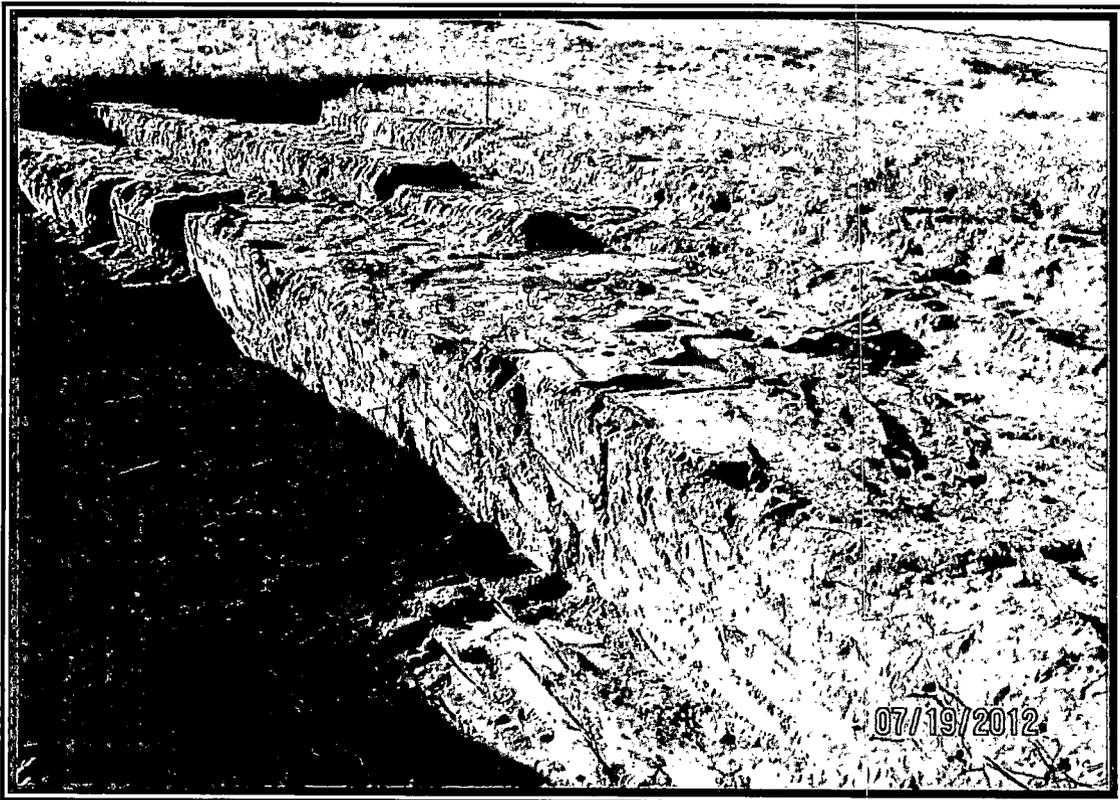
Spill area after excavation.



Spill area after excavation.



Spill area before backfill.



Spill area before backfill.



Spill area during backfill.



Spill area during backfill.



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

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August 13, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MAX FRIESS #2

Enclosed are the results of analyses for samples received by the laboratory on 08/09/12 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](http://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 style with a large, stylized initial 'C'.

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: 08/09/2012  
 Reported: 08/13/2012  
 Project Name: MAX FRIESS #2  
 Project Number: 253-3146-000  
 Project Location: LOCO HILLS, NM

 Sampling Date: 08/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 BOTTOM 6' (H201855-01)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/13/2012	ND	416	104	400	0.00		

**Sample ID: SP 1 E WALL 3' (H201855-02)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/13/2012	ND	416	104	400	0.00		

**Sample ID: SP 2 BOTTOM 6' (H201855-03)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	08/13/2012	ND	416	104	400	0.00		

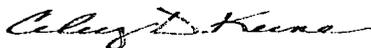
**Sample ID: SP 3 BOTTOM 6' (H201855-04)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/13/2012	ND	416	104	400	0.00		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	08/09/2012	Sampling Date:	08/09/2012
Reported:	08/13/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS #2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

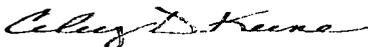
**Sample ID: SP 4 BOTTOM 6' (H201855-05)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/13/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

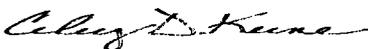
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

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---

Celey D. Keene, Lab Director/Quality Manager



August 13, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MAX FRIESS #2

Enclosed are the results of analyses for samples received by the laboratory on 08/09/12 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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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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:	08/09/2012	Sampling Date:	08/09/2012
Reported:	08/13/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS #2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 1 BOTTOM 6' (H201855-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	08/13/2012	ND	416	104	400	0.00		

**Sample ID: SP 1 E WALL 3' (H201855-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	08/13/2012	ND	416	104	400	0.00		

**Sample ID: SP 2 BOTTOM 6' (H201855-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3840	16.0	08/13/2012	ND	416	104	400	0.00		

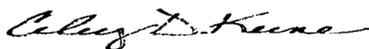
**Sample ID: SP 3 BOTTOM 6' (H201855-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/13/2012	ND	416	104	400	0.00		

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

Received:	08/09/2012	Sampling Date:	08/09/2012
Reported:	08/13/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS #2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 4 BOTTOM 6' (H201855-05)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/13/2012	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

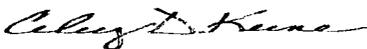
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

---

Cardinal Laboratories

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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>Eperh</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																						
Project Manager: <u>Fred Holmes</u>		P.O. #:																								
Address:		Company:																								
City:	State:	Zip:	Attn:																							
Phone #:	Fax #:		Address:																							
Project #: <u>253-3146-000</u>	Project Owner:		City:																							
Project Name: <u>Max Friess #2</u>		State:		Zip:																						
Project Location: <u>Eddy county</u>		Phone #:																								
Sampler Name: <u>Terry Osborn</u>		Fax #:																								
FOR LAB USE ONLY																										
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:	DATE	TIME												
<u>H201855</u>													<u>8/1/12</u>													
	<u>1 SP1 Bottom 6'</u>																									
	<u>2 SP1 E. wall 3'</u>																									
	<u>3 SP2 Bottom 6'</u>																									
	<u>4 SP3 Bottom 6'</u>																									
	<u>5 SP4 Bottom 6'</u>																									

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 based upon any of the above stated reasons or otherwise.

Relinquished By: <u>[Signature]</u>	Date: <u>8/1/12</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>4:40</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: (Initials)		
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	<u>[Signature]</u>		

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

July 18, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MAX FRIESS #2

Enclosed are the results of analyses for samples received by the laboratory on 07/18/12 10:20.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

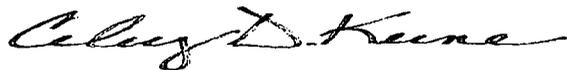
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Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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

Received:	07/18/2012	Sampling Date:	07/18/2012
Reported:	07/18/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS #2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 2 EAST WALL 2 1/2' (H201639-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/18/2012	ND	400	100	400	3.92		

**Sample ID: SP 5 WEST WALL 3' (H201639-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	07/18/2012	ND	416	104	400	0.00		

**Sample ID: SP 6 EAST WALL 3' (H201639-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	07/18/2012	ND	416	104	400	0.00		

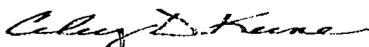
**Sample ID: SP 6 SOUTH WALL 3' (H201639-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	07/18/2012	ND	416	104	400	0.00		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

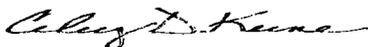
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

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Cardinal Laboratories

\*=Accredited Analyte

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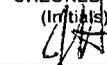
Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <b>Etech</b>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																													
Project Manager:		P.O. #:																																	
Address:		Company:																																	
City:	State:	Zip:	Attn:																																
Phone #:	Fax #:		Address:																																
Project #: 253-	Project Owner:		City:																																
Project Name: Max Friess #2		State:		Zip:																															
Project Location: Eddy county		Phone #:																																	
Sampler Name: Terry Osborn		Fax #:																																	
FOR LAB USE ONLY												chlorides																							
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING																											
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL											OTHER:	DATE	TIME											
H201639																																			
1	SP2 East wall 2 1/2'																						7/18/12	8:00	✓										
2	SP5 west wall 3'																								✓										
3	SP6 East wall 3'																								✓										
4	SP6 South wall 3'																							8:30	✓										

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 based upon any of the above stated reasons or otherwise.

Relinquished By: 	Date: 7/18/12	Received By: Jodi Henson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Time: 10:20	Time:	REMARKS: kit@detechnv.com <u>Also</u>	
Sampler - UPS - Bus - Other:	Date:	Time:		
	24°C		Sample Condition	CHECKED BY: (Initials)
			Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	
			Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	

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

#26



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

---

May 02, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MAX FRIESS #2

Enclosed are the results of analyses for samples received by the laboratory on 04/30/12 17:00.

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](http://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.  
 FRED HOLMES  
 P. O. BOX 8469  
 MIDLAND TX, 79708  
 Fax To: (432) 563-2213

Received:	04/30/2012	Sampling Date:	04/30/2012
Reported:	05/02/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS #2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

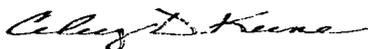
**Sample ID: SP2 W WALL 3' (H200987-01)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/02/2012	ND	432	108	400	3.77	

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





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

---

April 27, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MAX FRIESS #2

Enclosed are the results of analyses for samples received by the laboratory on 04/24/12 16:55.

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](http://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 style with a large, prominent initial "C".

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:	04/24/2012	Sampling Date:	04/24/2012
Reported:	04/27/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS #2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: HA 1 6-7' (H200941-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3480	16.0	04/25/2012	ND	416	104	400	0.00		

**Sample ID: HA 1 9-10' (H200941-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2280	16.0	04/25/2012	ND	416	104	400	0.00		

**Sample ID: HA 1 13-14' (H200941-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	04/25/2012	ND	416	104	400	0.00		

**Sample ID: HA 2 6-7' (H200941-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	04/25/2012	ND	416	104	400	0.00		

Cardinal Laboratories

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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:	04/24/2012	Sampling Date:	04/24/2012
Reported:	04/27/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS #2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: HA 2 9-10' (H200941-05)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	04/25/2012	ND	416	104	400	0.00		

**Sample ID: HA 2 12-14' (H200941-06)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1700	16.0	04/25/2012	ND	416	104	400	0.00		

**Sample ID: HA 3 6-7' (H200941-07)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1460	16.0	04/25/2012	ND	416	104	400	0.00		

**Sample ID: HA 3 9-10' (H200941-08)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	04/25/2012	ND	416	104	400	0.00		

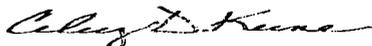
**Sample ID: HA 3 13-14' (H200941-09)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	04/25/2012	ND	416	104	400	0.00		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

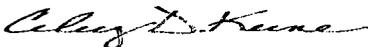
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

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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>E Tech</u>		<b>BILL TO</b>			<b>ANALYSIS REQUEST</b>																			
Project Manager: <u>Fred Holmes</u>		P.O. #: <del>XXXXXXXXXX</del>																						
Address:		Company:																						
City:	State:	Zip:	Attn:																					
Phone #:	Fax #:		Address:																					
Project #: <u>253-3146-000</u>	Project Owner:		City:																					
Project Name: <u>Max Frost #2</u>			State:																					
Project Location:			Zip:																					
Sampler Name: <u>Terry Osborn</u>			Phone #:																					
		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	MATRIX				PRESERV	SAMPLING		<i>Chlorides</i>													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE											ICE / COOL	OTHER	DATE	TIME
<u>H200941</u>																								
<u>1</u>	<u>HA2 6-7'</u>					✓																	<u>4/24</u>	
<u>2</u>	<u>HA2 9-10'</u>					✓																	✓	
<u>3</u>	<u>HA2 13-14'</u>					✓																	✓	
<u>4</u>	<u>HA2 6-7'</u>					✓																	✓	
<u>5</u>	<u>HA2 9-10'</u>					✓																	✓	
<u>6</u>	<u>HA2 13-14'</u>					✓																	✓	
<u>7</u>	<u>HA3 6-7'</u>					✓																	✓	
<u>8</u>	<u>HA3 9-10'</u>					✓							✓											
<u>9</u>	<u>HA3 13-14'</u>					✓							✓											
<small>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 based upon any of the above stated reasons or otherwise.</small>																								
Relinquished By: <u>Terry Osborn</u>		Date: <u>4-24-12</u>	Received By: <u>Jodi Jensen</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:		REMARKS:															
		Time: <u>4:55</u>			Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																	
Relinquished By:		Date:	Received By:																					
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>JK</u>																				

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

#26

April 12, 2012

FRED HOLMES

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MAX FRIESS 2

Enclosed are the results of analyses for samples received by the laboratory on 04/09/12 17:00.

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](http://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:

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

 Received: 04/09/2012  
 Reported: 04/12/2012  
 Project Name: MAX FRIESS 2  
 Project Number: 253-3146-000  
 Project Location: LOCO HILLS, NM

 Sampling Date: 04/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 1 BOTTOM 6' (H200807-01)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2320	16.0	04/12/2012	ND	400	100	400	3.92		

**Sample ID: SP 1 N WALL 3' (H200807-02)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	04/12/2012	ND	400	100	400	3.92		

**Sample ID: SP 1 W WALL 3' (H200807-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/12/2012	ND	400	100	400	3.92		

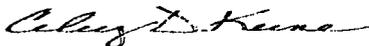
**Sample ID: SP 1 E WALL 3' (H200807-04)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/12/2012	ND	400	100	400	3.92		

Cardinal Laboratories

\* = Accredited Analyte

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Celestine 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: 04/09/2012  
 Reported: 04/12/2012  
 Project Name: MAX FRIESS 2  
 Project Number: 253-3146-000  
 Project Location: LOCO HILLS, NM

 Sampling Date: 04/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 2 BOTTOM 6' (H200807-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4040	16.0	04/12/2012	ND	400	100	400	3.92		

**Sample ID: SP 2 E WALL 3' (H200807-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2120	16.0	04/12/2012	ND	400	100	400	3.92		

**Sample ID: SP 2 W WALL 3' (H200807-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	04/12/2012	ND	400	100	400	3.92		

**Sample ID: SP 3 BOTTOM 6' (H200807-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	04/12/2012	ND	400	100	400	0.00		

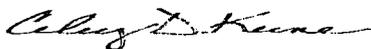
**Sample ID: SP 3 W WALL 3' (H200807-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/12/2012	ND	400	100	400	0.00		

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

 Received: 04/09/2012  
 Reported: 04/12/2012  
 Project Name: MAX FRIESS 2  
 Project Number: 253-3146-000  
 Project Location: LOCO HILLS, NM

 Sampling Date: 04/09/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: SP 3 E WALL 3' (H200807-10)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	04/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 4 BOTTOM 6' (H200807-11)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2640	16.0	04/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 4 E WALL 3' (H200807-12)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 4 W WALL 3' (H200807-13)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1040	16.0	04/12/2012	ND	400	100	400	0.00		

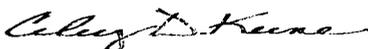
**Sample ID: SP 5 BOTTOM 6' (H200807-14)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4480	16.0	04/12/2012	ND	400	100	400	0.00		

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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:	04/09/2012	Sampling Date:	04/09/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS 2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

**Sample ID: SP 5 W WALL 3' (H200807-15)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1960	16.0	04/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 5 E WALL 3' (H200807-16)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	04/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 6 BOTTOM 6' (H200807-17)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	04/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 6 W WALL 3' (H200807-18)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/12/2012	ND	400	100	400	0.00		

**Sample ID: SP 6 E WALL 3' (H200807-19)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1250	16.0	04/12/2012	ND	400	100	400	0.00		

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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:	04/09/2012	Sampling Date:	04/09/2012
Reported:	04/12/2012	Sampling Type:	Soil
Project Name:	MAX FRIESS 2	Sampling Condition:	** (See Notes)
Project Number:	253-3146-000	Sample Received By:	Jodi Henson
Project Location:	LOCO HILLS, NM		

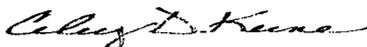
**Sample ID: SP 6 S WALL 3' (H200807-20)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	04/12/2012	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

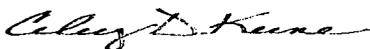
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- \*\* Samples not received at proper temperature of 6°C or below.
- \*\*\* Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported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

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Eteach</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																	
Project Manager: <u>Frank Holmes</u>		P.O. #: <u>253-3146-000</u>		Chloride																	
Address:		Company:																			
City:	State:	Zip:	Attn:																		
Phone #:	Fax #:		Address:																		
Project #: <u>253-3146-000</u> Project Owner:		City:																			
Project Name: <u>MAX FRIESS 2</u>		State: Zip:																			
Project Location: <u>Loco Hills</u>		Phone #:																			
Sampler Name: <u>Stephen Walsh</u>		Fax #:																			
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS											MATRIX						PRESERV.	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME							
<u>H200807</u>																					
	<u>1 SP1 Bottom 6'</u>													<u>4-9-12</u>	<u>3:00 PM</u>						
	<u>2 SP1 N Wall 3'</u>																				
	<u>3 SP1 W WALL 3'</u>																				
	<u>4 SP1 E WALL 3'</u>																				
	<u>5 SP2 Bottom 6'</u>																				
	<u>6 SP2 E Wall 3'</u>																				
	<u>7 SP2 W WALL 3'</u>																				
	<u>8 SP3 Bottom 6'</u>																				
	<u>9 SP3 N Wall 3'</u>																				
	<u>10 SP3 E WALL 3'</u>																				

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 based upon any of the above stated reasons or otherwise.

Relinquished By: <u>Stephen Walsh</u>	Date: <u>4-9-12</u>	Received By: <u>Joel Jensen</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>5:00 PM</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 <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	(Initials) <u>JW</u>		

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



Etech Env.

Project MAX FRLESS 2

Project No. 253-3146-000

Date Started 8-16-12

Date Finished 8-16-12

**Bamert Seed Company**

1897 CR 1018  
806-272-5506

Muleshoe, TX 79347  
Texas Permitt# 00905

*BLM #4 BLEND*

43609

Description	Pure Seed	Germ	Dormant	Origin
FOURWING SALTBUSH ( <i>Atriplex canescens</i> )	87.61%	3.00%	20.00%	TX
ALKALI SACATON, VNS ( <i>Sporobolus Alroides</i> )	4.16%	88.00%	9.00%	NM

Purity: 91.77%

Inert Matter: 8.20%

Other Crop Seed: 0.01%

Weed Seed: 0.02%

Noxious Weeds: None

Test Date: 04-2012

Net Wt: 25#

Supervisor

Stephen McLean

Etech Env.

Project Max Floss 2

Project No. 253-3146-000

Date Started 8-16-12

Date Finished 8-16-12

**Bamert Seed Company**

1897 CR 1018 Muleshoe, TX 79347  
806-272-5596 Texas Permit# 00905

BLM #2 BLEND

16 BAGS

43593

Description	Pure Seed	Germ	Dormant	Origin
VNS PLAINS BRISTLEGRASS ( <i>Setaria vulgaris</i> )	51.09%	22.00%	63.00%	TX
BEND SAND LOVEGRASS ( <i>Eriyostis trichodes</i> )	24.47%	89.00%	0.00%	TX
SAND DROPSEED VNS ( <i>Sporobolus cryptandrus</i> )	23.03%	76.00%	19.00%	

Purity: 98.58%

Inert Matter: 0.93%

Other Crop Seed: 0.39%

Weed Seed: 0.09%

Noxious Weeds: None

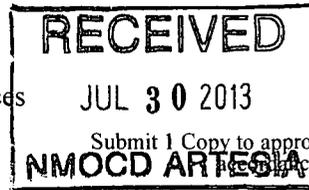
Test Date: 04-2012

Net Wt: 25#

Supervisor Stephen

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

### 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: Max Friess 2	Facility Type: Injection Well

Surface Owner: BLM	Mineral Owner: BLM	API No.: 3001505469
--------------------	--------------------	---------------------

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	30	17S	31E	660	N	660	E	Eddy

Latitude: 32° 48' 46.5" Longitude: 103° 54' 13.7"

#### NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 40bbls	Volume Recovered: 35bbls
Source of Release: Steel Pipeline	Date and Hour of Occurrence: 12/13/2011 - 0900	Date and Hour of Discovery: 12/13/2011 - 0930
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - OCD, Terry Gregston - BLM	
By Whom? Joe Hernandez	Date and Hour: 12/13/2011 - 1400	
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.\*: 4" trunk line. 1" seam opened on pipeline due to corrosion. Source of leak was excavated and repaired.

Describe Area Affected and Cleanup Action Taken.\* : Water surfaced and ran southwest for approx. 420ft. The Max Friess #2 injection line was re-ruptured during the backfill process of the original spill. Backfill operations were halted, and the ruptured line was excavated and repaired. Impacted soils above regulatory threshold levels were manually and mechanically excavated from the spill area, and the correct sampling procedures were followed. Impacted soils were transported off-site to Lea Land Landfill. Once the impacted soils were removed to acceptable levels, the production pad and pasture areas were backfilled with like materials and smoothed to grade, then the pasture area was seeded with a BLM mix #2 & #4. Water bars were installed to prevent wind and water erosion. All side walls of the excavation below the regulatory threshold levels of 1,000 mg/kg. The bottom of the excavation still has elevated levels of chlorides ranging from 2320 to 4480 mg/kg. Numerous lines have been encountered within the confines of the excavation including a 3" high pressure fiberglass line, 4" poly to steel line, 4" poly line. The lines traverse through all parts of the excavation. The presence of the lines has restricted further excavation due to safety concerns. LINN proposed to apply a calcium amendment to the bottom of the excavation (gypsum) then backfill with clean compacted fill material to within 1.5 - 2 feet of surface then complete the backfill with compatible soil which is conducive to growing vegetation.

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:	<b>OIL CONSERVATION DIVISION</b>		
Printed Name: Jose Hernandez	Approved by District Supervisor:		
Title: Foreman	Approval Date:	Expiration Date:	
E-mail Address: jhernandez@linneenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/22/2012	Phone: 575-738-1739		

\* Attach Additional Sheets If Necessary