

**HUNGRY HORSE, LLC
ENVIRONMENTAL SERVICES**

Dirt Work * On-Site Remediation * Soil Testing * Excavation

LINN ENERGY

CLOSURE SUMMARY

WEST A BATTERY

EDDY COUNTY, NEW MEXICO

UL/H SEC.4 T17S R31E

N.32.86758

/

W.-103.87121

EDDY COUNTY

START DATE: 3-3-2013

FINISH DATE: 4-28-2013

PREPARED BY: Oscar Frayre

ENVIRONMENTAL TECHNICIAN

HUNGRY HORSE ENVIRONMENTAL, LLC

P.O BOX 1058 HOBBS, NM 88241

(575) 393-3386

RECEIVED

MAY 23 2013

NMOCD ARTESIA

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1.0 Introduction

This report addresses the remediation of an accidental discharge of the tank battery at Linn Energy's West A Battery. Analytical results, an overhead map, and a sketch are included on this document as attachments. The project manager for Hungry Horse Environmental Services was Oscar Frayre.

2.0

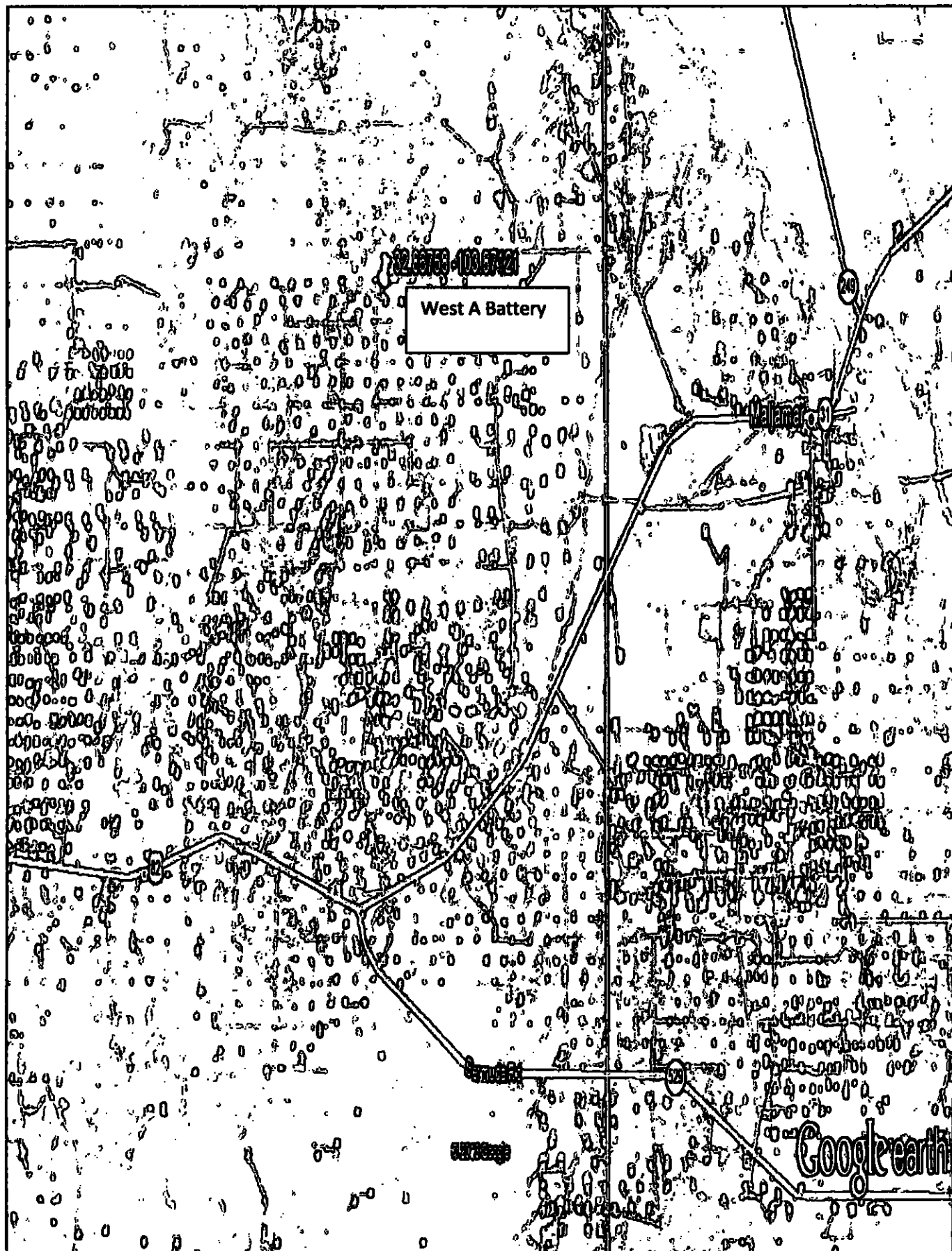
The top four feet is primarily caliche rock. The depth to ground water is presumed to be at 275'-300' based on the Eddy County depth to ground water map. There are no known water wells or surface bodies of water within a half of a mile of this location. This location is in Eddy County, New Mexico approximately 2.0 miles North of HWY 82 in Loco Hills.

3.0

We began the excavation process due to heavy odors we continued to explore the battery by doing field samples in random areas of the battery. Soil samples were obtained and analyzed for Chlorides, TPH(8015m), and BTEX. Lab results were presented to BLM Mike Burton and approval was given to backfill the affected areas with clean material. All contaminated soil was transported to a division approved disposal facility.



Attachment 1



Attachment 2

April 24, 2013

OSCAR FRAYRE

Hungry Horse Environmental

P.O. Box 1058

Hobbs, NM 88240

RE: WEST A BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/23/13 15:00.

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/ga/lab_accred_certif.html.

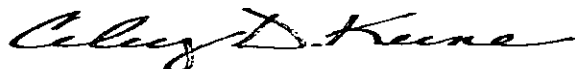
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

 Hungry Horse Environmental
 OSCAR FRAYRE
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 04/23/2013
 Reported: 04/24/2013
 Project Name: WEST A BATTERY
 Project Number: NONE GIVEN
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: PT. #1 @ 4' (H300955-01)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211		
Toluene*	<0.050	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547		
Ethylbenzene*	<0.050	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34		
Total BTEX	<0.300	0.300	04/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2013	ND	205	103	200	4.08	
DRO >C10-C28	<10.0	10.0	04/23/2013	ND	190	94.9	200	8.60	

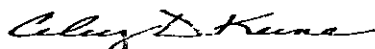
Surrogate: 1-Chlorooctane 82.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Hungry Horse Environmental
 OSCAR FRAYRE
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 04/23/2013
 Reported: 04/24/2013
 Project Name: WEST A BATTERY
 Project Number: NONE GIVEN
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: PT. #2 @ 4' (H300955-02)

BTEX 8021B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211		
Toluene*	<0.050	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547		
Ethylbenzene*	<0.050	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63		
Total Xylenes*	<0.150	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34		
Total BTEX	<0.300	0.300	04/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2013	ND	205	103	200	4.08	
DRO >C10-C28	<10.0	10.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 80.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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 Hungry Horse Environmental
 OSCAR FRAYRE
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 04/23/2013
 Reported: 04/24/2013
 Project Name: WEST A BATTERY
 Project Number: NONE GIVEN
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: PT. #3 @ 4' (H300955-03)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211	
Toluene*	<0.050	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547	
Ethylbenzene*	<0.050	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34	
Total BTEX	<0.300	0.300	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2013	ND	205	103	200	4.08	
DRO >C10-C28	<10.0	10.0	04/23/2013	ND	190	94.9	200	8.60	

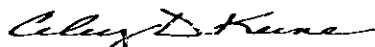
Surrogate: 1-Chlorooctane 82.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 Hungry Horse Environmental
 OSCAR FRAYRE
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 04/23/2013
 Reported: 04/24/2013
 Project Name: WEST A BATTERY
 Project Number: NONE GIVEN
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: PT. #4 @ 4' (H300955-04)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211	
Toluene*	0.063	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547	
Ethylbenzene*	<0.050	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63	
Total Xylenes*	<0.150	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34	
Total BTEX	<0.300	0.300	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/23/2013	ND	205	103	200	4.08	
DRO >C10-C28	<50.0	50.0	04/23/2013	ND	190	94.9	200	8.60	

Surrogate: 1-Chlorooctane 88.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.5 % 63.6-154

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Analytical Results For:

 Hungry Horse Environmental
 OSCAR FRAYRE
 P.O. Box 1058
 Hobbs NM, 88240
 Fax To: (505) 391-4585

 Received: 04/23/2013
 Reported: 04/24/2013
 Project Name: WEST A BATTERY
 Project Number: NONE GIVEN
 Project Location: OFF 82 NORTH OF RD 222

 Sampling Date: 04/23/2013
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SOUTH WALL (H300955-05)

BTX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2013	ND	1.75	87.5	2.00	0.211	
Toluene*	1.41	0.050	04/24/2013	ND	1.61	80.6	2.00	0.0547	
Ethylbenzene*	3.64	0.050	04/24/2013	ND	1.73	86.3	2.00	1.63	
Total Xylenes*	6.91	0.150	04/24/2013	ND	5.06	84.4	6.00	1.34	
Total BTX	12.0	0.300	04/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 143 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/24/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	88.6	50.0	04/23/2013	ND	205	103	200	4.08	
DRO >C10-C28	326	50.0	04/23/2013	ND	190	94.9	200	8.60	

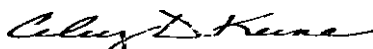
Surrogate: 1-Chlorooctane 96.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**101 East Marland, Hobbs, NM 88240
(575) 393-2328 FAX (575) 393-2476**

Company Name:		Project Manager:		Address:		City:		State:		Zip:		Phone #:		Fax #:	
Hungry Horse LLC		Oscar Graye		Cunzio Hwy		Hobbs		NM		88240					
Project Name:		Project Location:		Project Owner:		Project #:		City:		State:		Zip:		Phone #:	
West A Battery		Opp of 82 Water of 222		Linn County											
Sampler Name:		Sampler I.D.		Matrix		Preserv		Sampling		Date		Time		Lab I.D.	
Oscar Graye				Groundwater											
		1 P+1 Q4'		Wastewater											
		2 P+2 Q4'		Soil											
		3 P+3 Q4'		Sludge											
		4 P+4 Q4'		Other											
		5 South wall		Ice / Cool											
				ACID/BASE											
				Other											
				# Containers											
				(Grab or Comp)											

Lab I.D. H380955

1 P+1 Q4'

2 P+2 Q4'

3 P+3 Q4'

4 P+4 Q4'

5 South wall

DATE

TIME

4/23 2:05

4/23 2:10

4/23 2:15

4/23 2:20

4/23 2:30

PLEASE NOTE: Lab fees apply to all samples. Customer 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 analysis. All claims, including those for negligence, and any other claims whatsoever shall be the most valued 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 damages or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or associated persons and/or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated express or implied warranties.

Relinquished By: *[Signature]* Received By: *[Signature]* Date: *4/23/13* Time: *15:00*

Relinquished By: *[Signature]* Received By: *[Signature]* Date: *4/23/13* Time: *15:00*

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact

Yes ☒ No ☐

Checked By:

[Signature]

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2328 **#5**

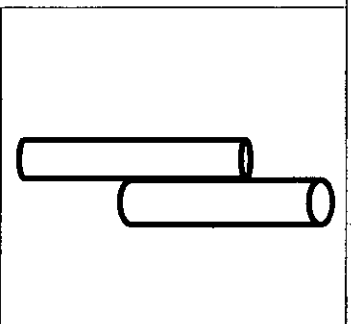
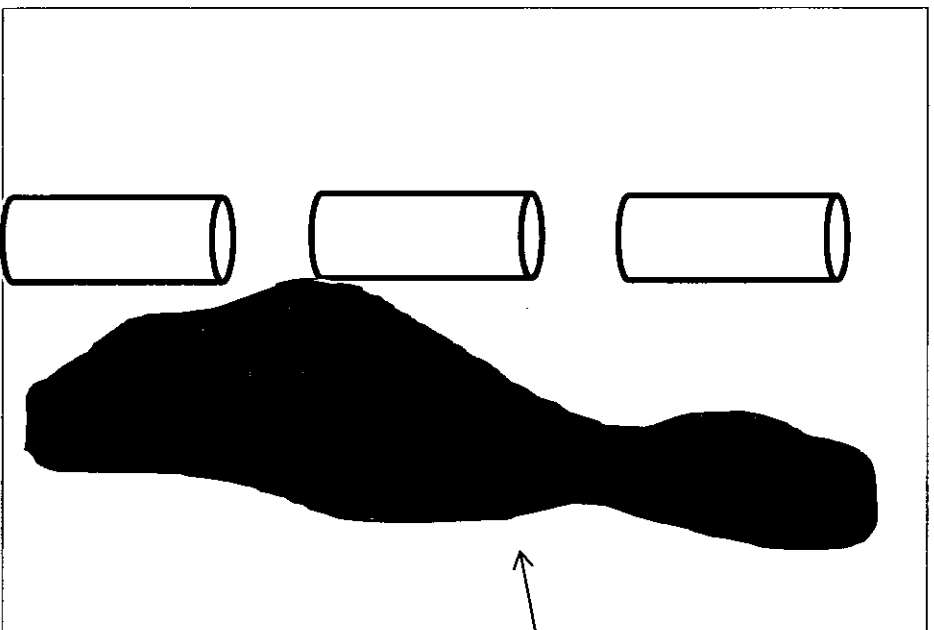
Attachment 3



WEST A BATTERY

LEASE RD

SPILL AREA



Attachment 4

HUNGRY HORSE, LLC
ENVIRONMENTAL SERVICES

Dirt Work

*

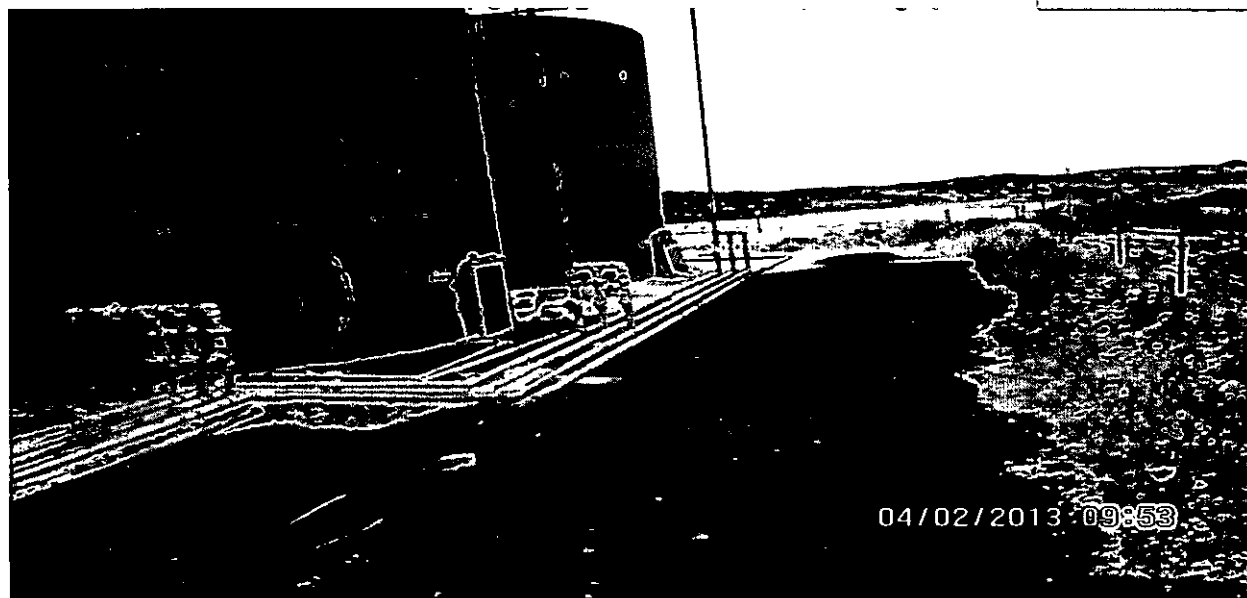
On-Site Remediation

*

Soil Testing

*

Excavation



Attachment 5

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC

NMLC 029426A

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating	Contact: Gary Wink
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: H.E. West A Battery- HE West A 29	Facility Type: Battery

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001528467
------------------------	------------------------	---------------------

LOCATION OF RELEASE

Unit Letter H	Section 04	Township 17S	Range 31E	Feet from the 1345	North/South Line North	Feet from the 1194	East/West Line East	County Bddy
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude: 32.86703 Longitude: -103.86939

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 40 bbls	Volume Recovered: 10 bbls
Source of Release: 3" Circulating line	Date and Hour of Occurrence: 3/30/2013 1:30pm	Date and Hour of Discovery: 3/30/2013 2pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? M. Bratcher- NM OCD Mike Burton-BLM	
By Whom? Rick Rickman / Gary Wink	Date and Hour 3/30/2013 2:30pm	
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.*:

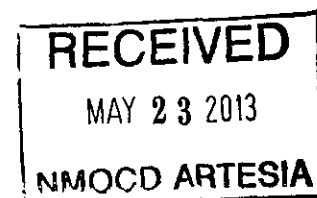
Describe Cause of Problem and Remedial Action Taken.*: Buried 3" circulating line developed a hole causing fluid to leak from the tank, due to corrosion.

Describe Area Affected and Cleanup Action Taken.*: Vac truck recovered 10 bbls, remove, haul, and dispose, in approved land fill.

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>Gary W. Wink</i>	OIL CONSERVATION DIVISION	
Printed Name: Gary W. Wink	Approved by District Supervisor:	
Title: Construction Foreman	Approval Date:	Expiration Date:
E-mail Address: gawink@linnenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/03/2013 Phone: 575-390-3477		

* Attach Additional Sheets If Necessary



RECEIVED

MAY 23 2013

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

NMOCD ARTESIA

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 Operating	Contact: Gary Wink
Address 2130 W. Bender Hobbs NM 88240	Telephone No. 575-738-1739
Facility Name West A Battery	Facility Type Battery
Surface Owner Federal Mineral Owner Federal API No. 3001528467	

LOCATION OF RELEASE

Unit Letter H	Section 04	Township 17S	Range 31E	Feet from the 1345	North/South Line NORTH	Feet from the 1194	East/West Line EAST	County EDDY
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release OIL	Volume of Release 40BBLS	Volume Recovered 10 BBLS
Source of Release 3" CIRCULATING LINE	Date and Hour of Occurrence 3/30/13 1:30PM	Date and Hour of Discovery 3/30/13 2PM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - NM OCD Mike Burton BLM	
By Whom? Rick Rickman / Gary Wink	Date and Hour 3/30/13	
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.* We began by excavating inside the battery using hand tools and placing the contaminated soil above a plastic liner. Random samples were taken and field tested on site for CL, they were then taken to the laboratory for further analysis, labs were then presented to BLM for backfill approval. All the contaminated soil was hauled off to a disposal facility.		
Describe Area Affected and Cleanup Action Taken.*		
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>Gary W. Wink</i>	OIL CONSERVATION DIVISION	
Printed Name: GARY W. WINK	Approved by Environmental Specialist:	
Title: CONSTRUCTION FOREMAN I	Approval Date:	Expiration Date:
E-mail Address: gwink@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5/9/2013 Phone: 575-390-3477	2RP-1618	

* Attach Additional Sheets If Necessary

Oscar Frayre

From: Burton, Michael <mburton@blm.gov>
Sent: Friday, May 03, 2013 8:05 AM
To: Oscar Frayre
Subject: Re: west a bat

Oscar,
Your plan to excavate the West A battery is approved.
Thanks

~~Mike Burton~~
BLM-CFO
Environmental Protection Specialist
575-234-2226 office
575-361-3574 cell
mburton@blm.gov

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On Fri, May 3, 2013 at 6:25 AM, Oscar Frayre <OFrayre@hungry-horse.com> wrote:

A n email stating I have your permission to begin work at west a battery