

LINN ENERGY

2130 W. Bender Blvd.
Hobbs, NM 88241
Phone 575.738.1739

Linn H E West B 37
(2RP-2150)

Corrective Action Plan

API No. 30-015-26000

Release Date: January 9th, 2014

Unit Letter J, Section 3, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241

Phone 575.393.2967

February 4th, 2014

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

RE: Corrective Action Plan

Linn H E West B 37 (2RP-2150)

UL/J sec. 3 T17S R31E

API No. 30-015-26000

Mr. Bratcher:

Linn Energy (Linn) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site.

Background and Previous Work

The site is located approximately 5.5 miles west of Maljamar, New Mexico at UL/J sec. 2 T17S R31E. This site is in an area of no known groundwater.

On January 9th, 2014, Linn discovered a release of produced water. The #1 and #2 headers at the water station had been shut in due to a loss of pressure. The release was found at the West B #37 injection well. A cow had rubbed against the well head and accidentally pushed open a valve releasing produced water at pressure. The well head released a total of 10 barrels of produced water over 7,188 square feet of lease pad and pasture land. BLM and NMOCD were notified of the release on January 10th, 2014 and an initial C-141 was sent to NMOCD for their approval (Appendix A).

RECS personnel were on site beginning on January 15th, 2014 to assess the release. Four points within the release were sampled at the surface and with depth (Figure 1). Representative samples were taken to a commercial laboratory for analysis (Appendix B). Point 1 returned a laboratory chloride value below regulatory standards at 1.5 ft bgs. Point 2, Point 3 and Point 4 returned a laboratory chloride values below regulatory standards at 6 inches. Gasoline Range Organics (GRO) readings, Diesel Range Organics (DRO) readings and BTEX readings were all below regulatory standards at all sampling points.

Photo documentation for these activities can be found in Appendix C.

Corrective Action Plan

Based on the laboratory analysis, the area around Point 2, Point 3 and Point 4 will be scraped to 6 inches bgs. The area around Point 1 will be scraped to 1.5 ft bgs (Figure 2). At the base of each scrape a bottom composite will be taken to a commercial laboratory to verify that all constituents are below 1,000 mg/kg chloride and 1,000 mg/kg TPH. The excavated soil will be taken to a NMOCD approved facility for disposal. The site will be backfilled with clean, imported soil and contoured to the surrounding location. Soil amendments will be added to the pasture area as needed and will be seeded with LPC mix. Vegetation above the liner will also provide a natural infiltration barrier for the site since plants capture water through their roots thereby reducing the volume of water moving through the vadose zone to groundwater.

Once the CAP activities have been completed, a report will be submitted detailing the CAP activities and with a request for 'remediation termination' or similar closure status of the regulatory file.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,



Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Initial Sampling Data
- Figure 2 – Proposed Excavation
- Appendix A – Initial C-141
- Appendix B – Laboratory Analyses
- Appendix C – Photo Documentation

Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948, Hobbs, NM 88241
Phone 575.393.2967

Initial Sampling Data

Pt. 2	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	9060	17.9	<50	3420	<0.05	0.058	0.1	0.297	0.455
6"	640	1.1	<0.05	45	<0.05	<0.05	<0.05	<0.15	<0.3
1'	368	0	<10	30.6	<0.05	<0.05	<0.05	<0.15	<0.3

Pt. 1	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	2840	0.2	<10	381	<0.05	0.057	<0.05	0.05	<0.3
6"	7120	7.2	<10	100	<0.05	<0.05	<0.05	<0.15	<0.3
1'	1470	0	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
1.5'	336	0.8	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Pt. 3	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	8080	4.5	<10	164	<0.05	<0.05	<0.05	<0.15	<0.3
6"	608	0	<10	13.7	<0.05	<0.05	<0.05	<0.15	<0.3

Pt. 4	CI-	PID	GRO	DRO	B	T	E	X	BTEX
SS	8660	28.2	<10	908	<0.05	<0.05	0.085	0.237	0.322
6"	80	0	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3

Legend

▲ SAMPLE POINT

● WELLHEAD

□ STAIN (7,188 sq ft)

CI- Field Data

CI- Lab Data

Landowner: BLM
DGW: None

Source: Esri, DigitalGlobe, GeoEye,
Getmapping, Aerogrid, IGN, IGP, swi



LINN
WEST B #37
(2RP-2150)
UL J SECTION 3
T-17-S R-31-E
EDDY COUNTY, NM

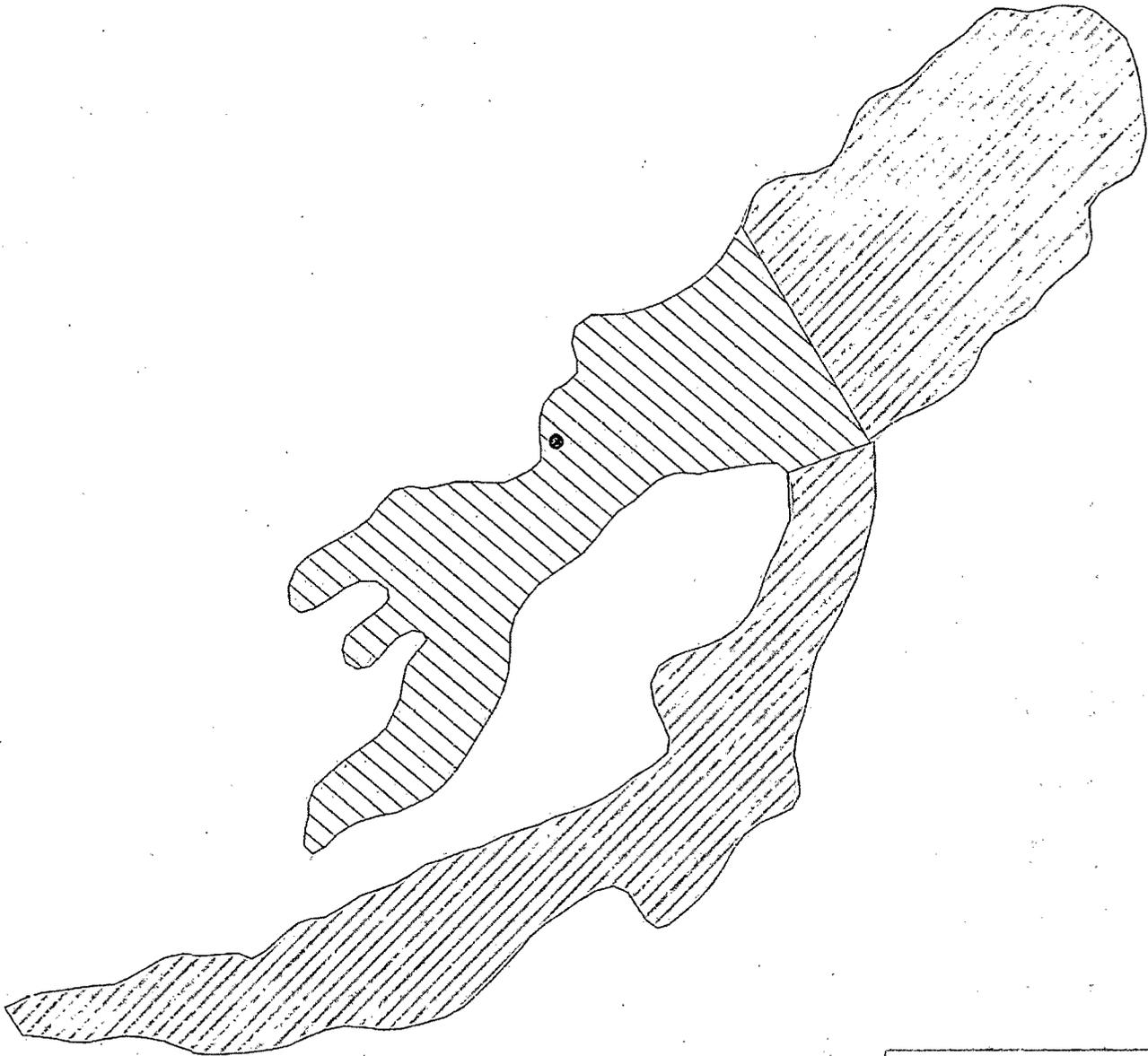
Figure 1



0 10 20
HHH Feet

GPS date: 1/15/14 AG
Drawing date: 1/23/14
Drafted by: C. Ursanic

Proposed Excavation



Legend

- WELLHEAD
-  SCRAPE AT 1.5 FT
-  SCRAPE AT 6 IN
-  STAIN (7,188 sq ft)

Landowner: BLM
DGW: None

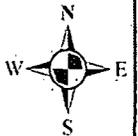
Source: Esri, DigitalGlobe, GeoEye,
Getmapping, AeroGrid, IGN, IGP, sw

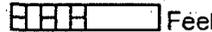


LINN
WEST B #37
(2RP-2150)

UL J SECTION 3
T-17-S R-31-E
EDDY COUNTY, NM

Figure 2



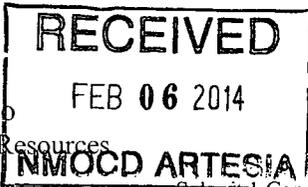
0 10 20
 Feet

GPS date: 1/15/14 AG
Drawing date: 1/31/14
Drafted by: L. Weinheimer

Appendix A

Initial C-141

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967



District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR Initial Report Final Report

Name of Company: Linn Operating	Contact: Brian Wall
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: H E West B 37	Facility Type: Injection

Surface Owner: Federal	Mineral Owner:	API No.: 30-015-26000
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LOCATION OF RELEASE

Unit Letter J	Section 03	Township 17S	Range 31E	Feet from the 1980	North/South Line South	Feet from the 1980	East/West Line East	County Eddy
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Latitude: 32.86183 Longitude: -103.85467

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 10 bbls	Volume Recovered: 0
Source of Release: Valve	Date and Hour of Occurrence: 01/09/2014	Date and Hour of Discovery: 01/09/2014 4:00pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Burton- BLM	
By Whom? Brian Wall	Date and Hour 01/10/2014	
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.*: Found that headers #1 and 2 at water station had been shut in at water station at about 8:00am, due to loss of pressure. Isolated lateral lines off of injection trunk line and began opening lines one at a time to find area leak would be in. Once finding which line was causing loss of pressure, used roustabout crew to walk out lines in attempt to find location of leak. Found leak at approx. 4:00pm on location of the West B #37 injection well. Discovered that cow had rubbed against the well head accidentally pushing open a valve and releasing produced water at pressure.

Describe Area Affected and Cleanup Action Taken.*: Produced water sprayed from open valve causing large coverage area of liquid. Closed valve and removed handle. Delineate spill site. Send plan of action to OCD and BLM. Remove contaminated soils and dispose of at approved facility. Bring in clean soils to replace void to natural elevation.

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: Brian Wall	Approved by District Supervisor:		
Title: Construction Foreman II	Approval Date:	Expiration Date:	
E-mail Address: bwall@linenergy.com	Conditions of Approval:	Attached <input type="checkbox"/>	

Date: 01/13/2014

Phone: 806-367-0645

* Attach Additional Sheets If Necessary

Appendix B

Laboratory Analyses

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

January 23, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: H. E. WEST B #37

Enclosed are the results of analyses for samples received by the laboratory on 01/15/14 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 01/15/2014
 Reported: 01/23/2014
 Project Name: H. E. WEST B #37
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 @ SURFACE (H400137-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2014	ND	2.32	116	2.00	1.29		
Toluene*	0.057	0.050	01/20/2014	ND	2.32	116	2.00	1.51		
Ethylbenzene*	<0.050	0.050	01/20/2014	ND	2.30	115	2.00	1.47		
Total Xylenes*	<0.150	0.150	01/20/2014	ND	6.74	112	6.00	1.49		
Total BTEX	<0.300	0.300	01/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	01/20/2014	ND	416	104	400	0.00		

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	01/18/2014	ND	46.7	93.4	50.0	3.48		
DRO >C10-C28	381	10.0	01/18/2014	ND	47.4	94.9	50.0	1.97		

Surrogate: 1-Chlorooctane 81.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.5 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 01/15/2014
 Reported: 01/23/2014
 Project Name: H. E. WEST B #37
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 2 @ SURFACE (H400137-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/20/2014	ND	2.32	116	2.00	1.29		
Toluene*	0.058	0.050	01/20/2014	ND	2.32	116	2.00	1.51		
Ethylbenzene*	0.100	0.050	01/20/2014	ND	2.30	115	2.00	1.47		
Total Xylenes*	0.297	0.150	01/20/2014	ND	6.74	112	6.00	1.49		
Total BTEX	0.455	0.300	01/20/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 129 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9060	16.0	01/21/2014	ND	416	104	400	3.92		

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	01/18/2014	ND	46.7	93.4	50.0	3.48		
DRO >C10-C28	3420	50.0	01/18/2014	ND	47.4	94.9	50.0	1.97		

Surrogate: 1-Chlorooctane 89.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 149 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/15/2014	Sampling Date:	01/15/2014
Reported:	01/23/2014	Sampling Type:	Soil
Project Name:	H. E. WEST B #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 3 @ SURFACE (H400137-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650		
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677		
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209		
Total BTEX	<0.300	0.300	01/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8080	16.0	01/21/2014	ND	416	104	400	3.92		

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	01/18/2014	ND	46.7	93.4	50.0	3.48		
DRO >C10-C28	164	10.0	01/18/2014	ND	47.4	94.9	50.0	1.97		

Surrogate: 1-Chlorooctane 72.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.4 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/15/2014	Sampling Date:	01/15/2014
Reported:	01/23/2014	Sampling Type:	Soil
Project Name:	H. E. WEST B #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: PT. 4 @ SURFACE (H400137-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650		
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677		
Ethylbenzene*	0.085	0.050	01/21/2014	ND	2.26	113	2.00	0.431		
Total Xylenes*	0.237	0.150	01/21/2014	ND	6.61	110	6.00	0.209		
Total BTEX	0.322	0.300	01/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 117% 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8660	16.0	01/21/2014	ND	416	104	400	3.92		

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	01/20/2014	ND	185	92.3	200	6.86		
DRO >C10-C28	908	10.0	01/20/2014	ND	183	91.3	200	6.89		

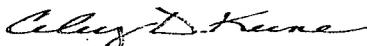
Surrogate: 1-Chlorooctane 81.1% 65.2-140

Surrogate: 1-Chlorooctadecane 94.8% 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

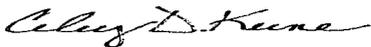
Notes and Definitions

- 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 SM4500CI-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

January 22, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: LINN WEST B #37

Enclosed are the results of analyses for samples received by the laboratory on 01/21/14 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/21/2014	Sampling Date:	01/15/2014
Reported:	01/22/2014	Sampling Type:	Soil
Project Name:	LINN WEST B #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

Sample ID: POINT 1 @ 6" (H400182-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650		
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677		
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209		
Total BTEX	<0.300	0.300	01/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 111 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7120	16.0	01/22/2014	ND	416	104	400	3.92		

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	01/22/2014	ND	210	105	200	6.84		
DRO >C10-C28	100	10.0	01/22/2014	ND	204	102	200	6.75		

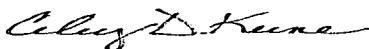
Surrogate: 1-Chlorooctane 83.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.1 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 01/21/2014
 Reported: 01/22/2014
 Project Name: LINN WEST B #37
 Project Number: NONE GIVEN
 Project Location: T17S R31E

 Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POINT 1 @ 1' (H400182-02)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650		
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677		
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209		
Total BTEX	<0.300	0.300	01/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1470	16.0	01/22/2014	ND	416	104	400	3.92		

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	01/22/2014	ND	210	105	200	6.84		
DRO >C10-C28	<10.0	10.0	01/22/2014	ND	204	102	200	6.75		

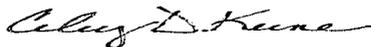
Surrogate: 1-Chlorooctane 90.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/21/2014	Sampling Date:	01/15/2014
Reported:	01/22/2014	Sampling Type:	Soil
Project Name:	LINN WEST B #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

Sample ID: POINT 2 @ 6" (H400182-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650		
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677		
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209		
Total BTEX	<0.300	0.300	01/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	01/22/2014	ND	416	104	400	3.92		

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	01/22/2014	ND	210	105	200	6.84		
DRO >C10-C28	45.0	10.0	01/22/2014	ND	204	102	200	6.75		

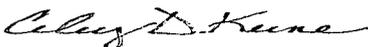
Surrogate: 1-Chlorooctane 97.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 01/21/2014
 Reported: 01/22/2014
 Project Name: LINN WEST B #37
 Project Number: NONE GIVEN
 Project Location: T17S R31E

 Sampling Date: 01/15/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: POINT 2 @ 1' (H400182-04)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650		
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677		
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209		
Total BTEX	<0.300	0.300	01/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	01/22/2014	ND	416	104	400	3.92		

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	01/22/2014	ND	210	105	200	6.84		
DRO >C10-C28	30.6	10.0	01/22/2014	ND	204	102	200	6.75		

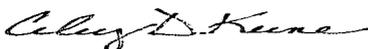
Surrogate: 1-Chlorooctane 86.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/21/2014	Sampling Date:	01/15/2014
Reported:	01/22/2014	Sampling Type:	Soil
Project Name:	LINN WEST B #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

Sample ID: POINT 3 @ 6" (H400182-05)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650		
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677		
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209		
Total BTEX	<0.300	0.300	01/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	01/22/2014	ND	416	104	400	3.92		

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	01/22/2014	ND	210	105	200	6.84		
DRO >C10-C28	13.7	10.0	01/22/2014	ND	204	102	200	6.75		

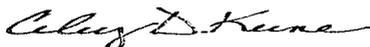
Surrogate: 1-Chlorooctane 92.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.6 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/21/2014	Sampling Date:	01/15/2014
Reported:	01/22/2014	Sampling Type:	Soil
Project Name:	LINN WEST B #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T17S R31E		

Sample ID: POINT 4 @ 6" (H400182-06)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/21/2014	ND	2.28	114	2.00	0.650		
Toluene*	<0.050	0.050	01/21/2014	ND	2.23	112	2.00	0.677		
Ethylbenzene*	<0.050	0.050	01/21/2014	ND	2.26	113	2.00	0.431		
Total Xylenes*	<0.150	0.150	01/21/2014	ND	6.61	110	6.00	0.209		
Total BTEX	<0.300	0.300	01/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/22/2014	ND	416	104	400	3.92		

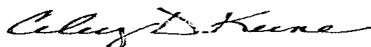
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/22/2014	ND	210	105	200	6.84		
DRO >C10-C28	<10.0	10.0	01/22/2014	ND	204	102	200	6.75		

Surrogate: 1-Chlorooctane 93.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 95.3 % 63.6-154

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Caley D. Keene, Lab Director/Quality Manager

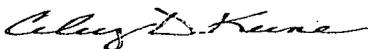
Notes and Definitions

- 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



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

January 31, 2014

JACOB KAMPLAIN

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

419 W. CAIN

HOBBS, NM 88240

RE: WEST B #37

Enclosed are the results of analyses for samples received by the laboratory on 01/29/14 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, sweeping initial 'C'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 JACOB KAMPLAIN
 419 W. CAIN
 HOBBS NM, 88240
 Fax To: (575) 397-1471

Received:	01/29/2014	Sampling Date:	01/29/2014
Reported:	01/31/2014	Sampling Type:	Soil
Project Name:	WEST B #37	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Kathy Perez
Project Location:	NONE GIVEN		

Sample ID: PT. 1 @ 1.5' (H400292-01)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/31/2014	ND	2.26	113	2.00	2.91		
Toluene*	<0.050	0.050	01/31/2014	ND	2.24	112	2.00	2.60		
Ethylbenzene*	<0.050	0.050	01/31/2014	ND	2.23	111	2.00	2.55		
Total Xylenes*	<0.150	0.150	01/31/2014	ND	6.44	107	6.00	3.04		
Total BTEX	<0.300	0.300	01/31/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 89.4-126

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	01/30/2014	ND	416	104	400	0.00		

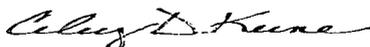
TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/31/2014	ND	218	109	200	10.7		
DRO >C10-C28	<10.0	10.0	01/31/2014	ND	225	112	200	14.2		

Surrogate: 1-Chlorooctane 79.9 % 65.2-140
Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

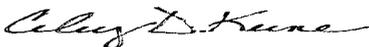
Notes and Definitions

- 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

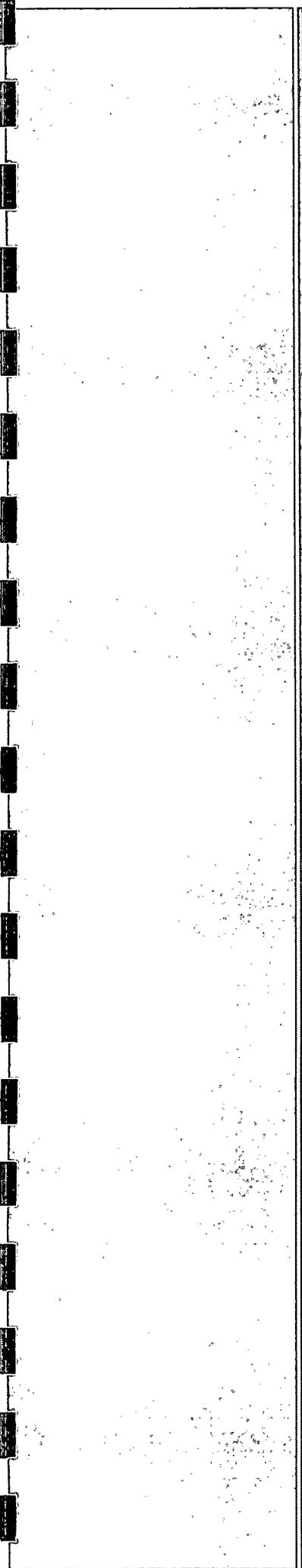
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Celey D. Keene, Lab Director/Quality Manager

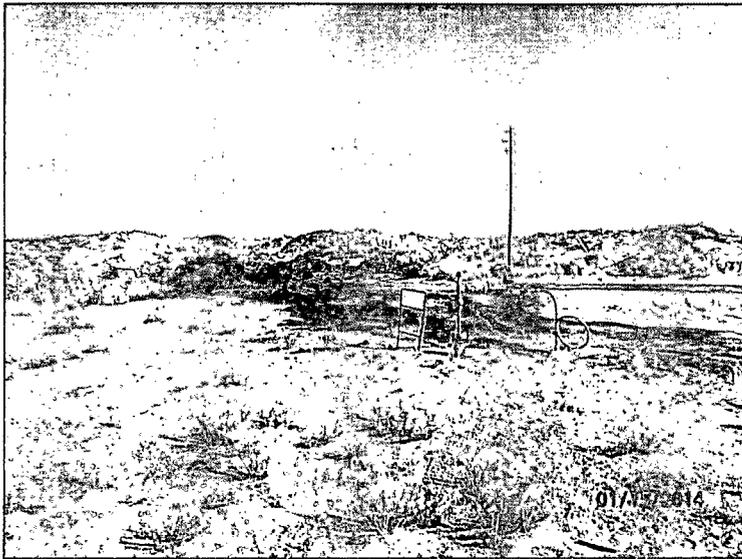


Appendix C

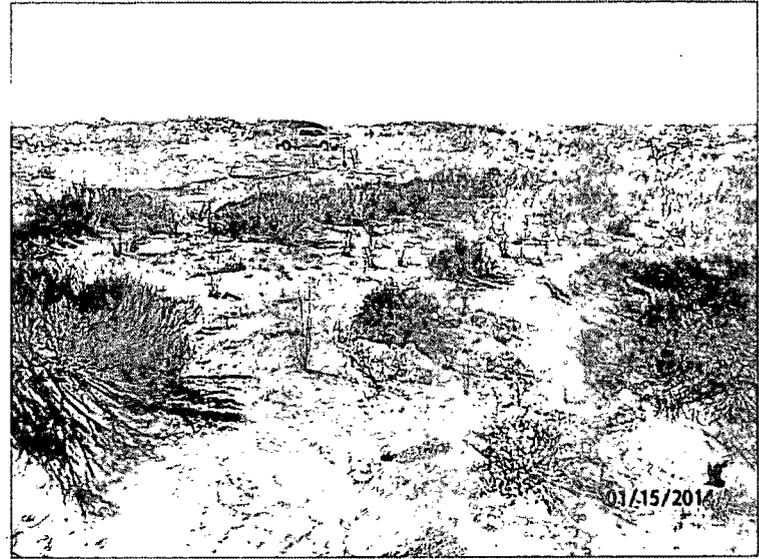
Photo Documentation

RICE Environmental Consulting and Safety (RECS)
P.O. Box 2948 Hobbs, NM 88241
Phone 575.393.2967

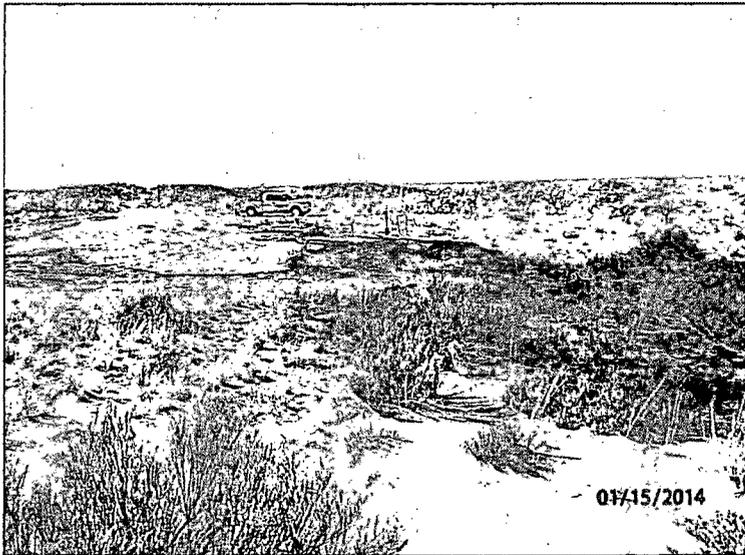
Linn H E West B #37
Unit Letter J, Section 3, T17S, R31E



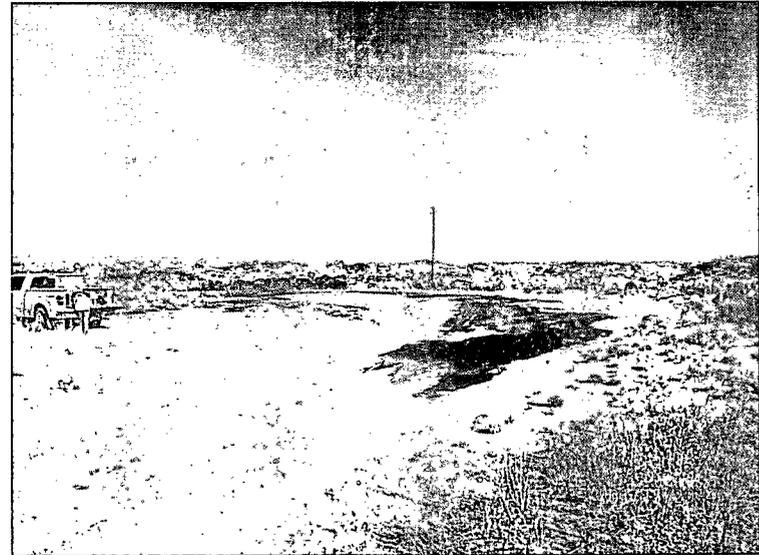
Initial release area, facing northeast 1/15/14



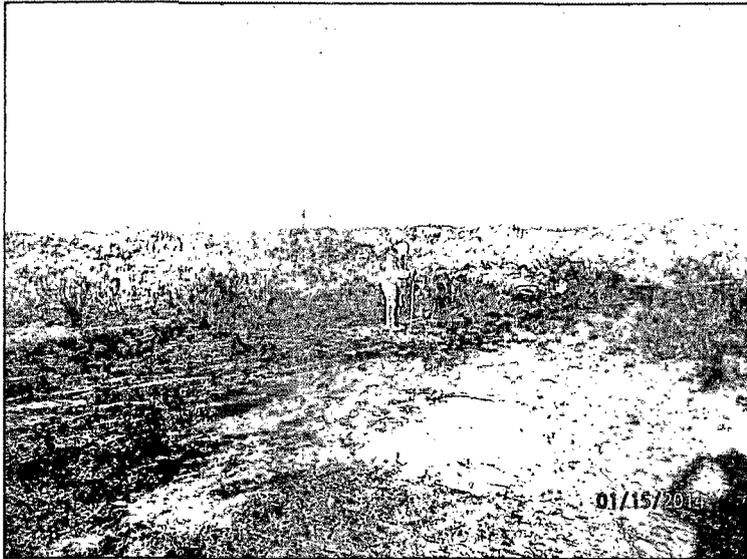
Initial release area, facing southwest 1/15/14



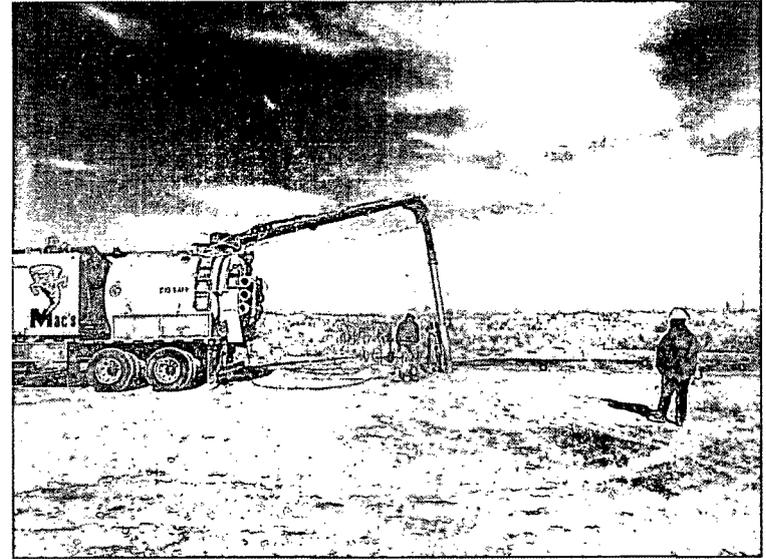
Initial release area, facing west 1/15/14



Initial release area, facing northeast 1/15/14



Sampling release area, facing northeast 1/15/14



Using the hydrovac to line spot, facing north 1/28/14