

LINN ENERGY

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

J.L. Keel B #072 (2RP-1505)

Termination Request

API 30-015-28580

Unit Letter I, Section 5, Township 17S, Range 31E

Rice Environmental Consulting & Safety

P.O. Box 2948 Hobbs, NM 88241

Phone 575.393.2967

June 3rd, 2013

Mike Bratcher

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau – District 2

811 S. First St.

Artesia, NM 88210

RE: TERMINATION REQUEST

Linn Energy – J.L. Keel B #072

UL/I sec. 5 T17S R31E

API No. 30-015-28580

2RP-1505

Mr. Bratcher:

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

Background and Previous Work

On January 8th, 2013, an accidental discharge of produced water and oil from a ruptured 2 inch collar on a 2 inch fiberglass HP line occurred coming from the J.L. Keel B #72. The line was shut in; however, the line released a total of 35 barrels of produced water and 5 barrels of oil, of which no fluid was recovered. A total of 5,576 sq ft of road and pasture were affected. An initial C-141 was submitted by Linn Energy on January 10th, 2013 (Appendix A). The site is located 7 miles west of Maljamar in unit letter 'I', sec. 5, T17S R31E in Eddy County, New Mexico. This site is located in an area of no known groundwater.

On January 9th, 2013, RECS personnel were on site to initialize work on the J.L. Keel B #72. Soil samples were taken from the surface of the release (Figure 1) and the samples were taken to a commercial laboratory for analysis of chlorides, GRO and DRO (Appendix B). Photo documentation of the release can be found in Appendix C.

Based on the sampling data, Linn submitted a Corrective Action Plan (CAP) on March 8th, 2013. The CAP recommended that the lease road be scraped six inches and pasture excavated to a maximum depth of 4 ft bgs or to laboratory chloride level of 1,000 mg/kg. Final chloride and hydrocarbon samples would be taken to a commercial laboratory for analysis. The site would then be backfill with clean, imported soil. BLM approved this CAP on March 11th, 2013 with the following conditions:

1. Confirmatory samples of the bottom and sidewalls would need to be taken of the pasture area;

2. The site should be backfilled with native soils matching the surrounding terrain, re-contoured, and seeded using the LPC seed mix.

Site excavation began on March 20th, 2013. The lease road was scraped down six inches. The release areas in the north pasture was excavated down four feet and the release areas in the south pasture were excavated down six inches and two feet (Figure 2). A total of 384 yards of soil was taken to a NMOCD approved facility for disposal. Representative samples from the pasture areas were taken to a commercial laboratory for analysis of chlorides, TPH and BTEX (Appendix C). A surface sample was taken at Pt. 6 and taken to a commercial laboratory for analysis of chlorides, TPH and BTEX. The laboratory chloride reading returned a result of 96 mg/kg and TPH and BTEX readings of non-detect. BLM approved the backfilling of the site on April 3rd, 2012, and the site was backfilled with clean, imported soil. A total of 396 yards of caliche and top soil was imported to the site to serve as backfill. A sample of the imported soil was taken to a commercial laboratory for analysis of chlorides and returned a result of non-detect. The site was backfilled, was contoured to the surrounding location, and was seeded on July 16th, 2013 with LPC seed mix.

Conclusion

Due to the removal of impacted soils as approved by the Corrective Action Plan and given the lack of groundwater at the site, RECS, on behalf of Linn Energy, submits the final C-141 (Appendix D) and respectfully requests the closure of the regulatory file for this site.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 631-6432 if have any concerns or wish to discuss the site.

Sincerely,



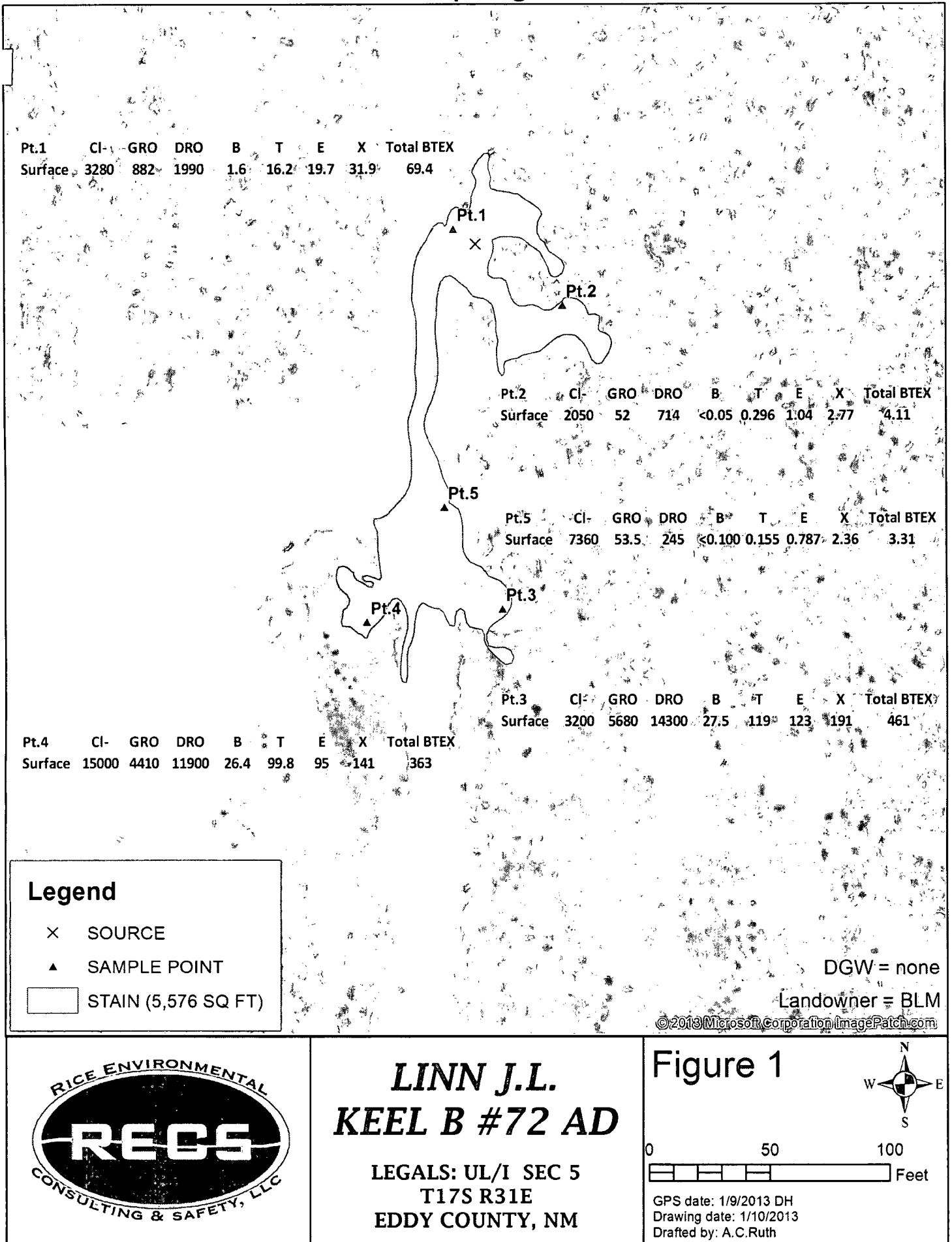
Bruce Baker
Project Manager
RECS
(575) 631-5157

cc. Mike Burton, BLM

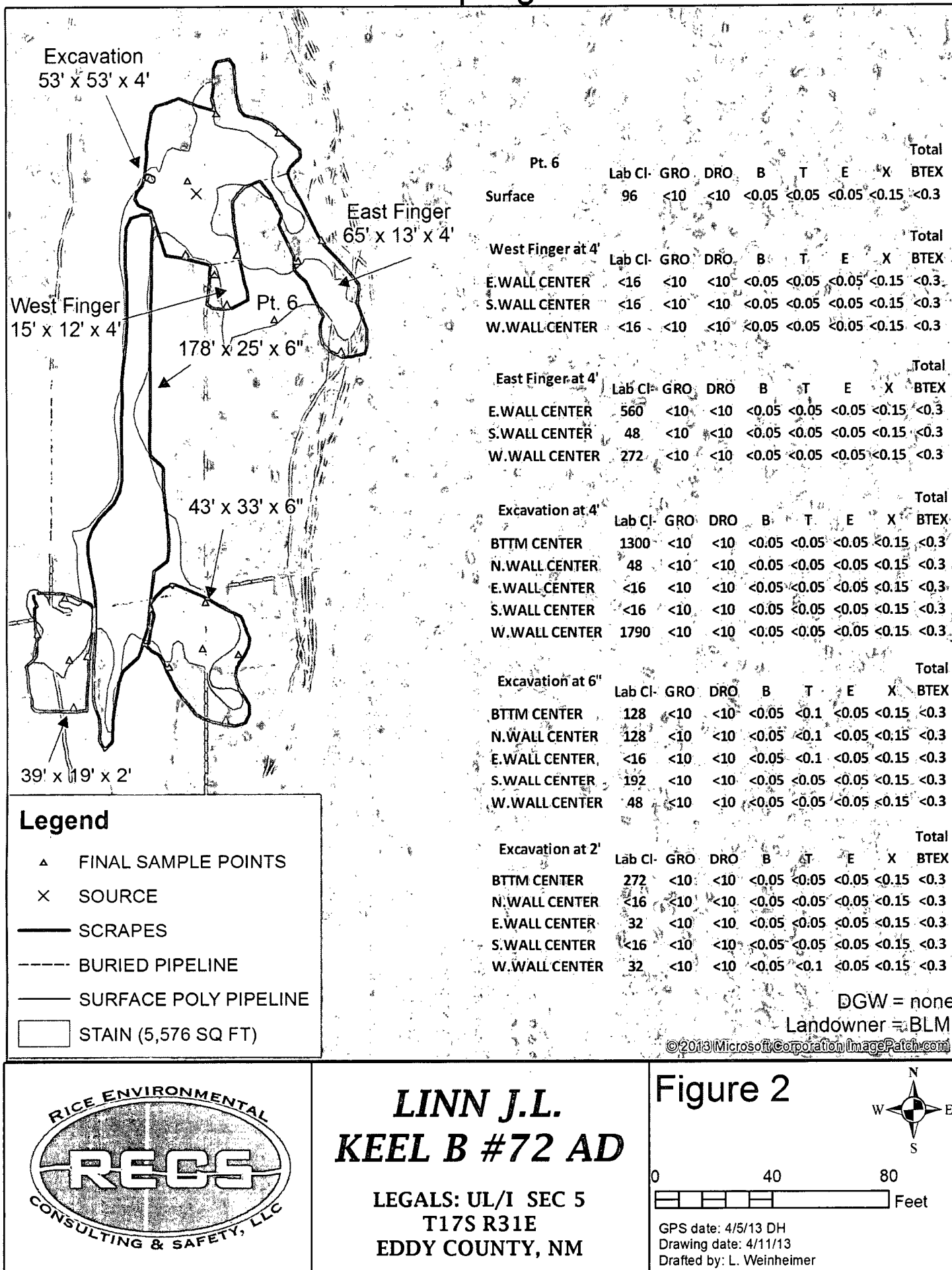
Attachments:

- Figure 1: Initial Sampling Data
- Figure 2: Final Sampling Data
- Appendix A: Initial Form C-141
- Appendix B: Initial Sampling Labs
- Appendix C: Excavation Documentation
- Appendix D: Final Form C-141

Initial Sampling Data



Final Sampling Data



LINN J.L.
KEEL B #72 AD

LEGALS: UL/I SEC 5
T17S R31E
EDDY COUNTY, NM

Appendix A

Initial Form 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

RECEIVED

JAN 10 2013

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

nJMW/1301753978

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating 269324	Contact: Jose Hernandez
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739
Facility Name: J.L. Keel B #72	Facility Type: Injection

Surface Owner: Federal	Mineral Owner: Federal	API No.: 3001528580
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LOCATION OF RELEASE

Unit Letter I	Section 05	Township 17S	Range 31E	Feet from the 2230	North/South Line South	Feet from the 760	East/West Line East	County Eddy
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Latitude: 32.86242 Longitude: -103.88504

NATURE OF RELEASE

Type of Release: Produced Water / Oil

Volume of Release: 35 bbls / 5 bbls
Volume Recovered: 0 / 0

Source of Release: 2" Fiberglass HP line

Date and Hour of Occurrence: 01/08/2013 9:30 n
Date and Hour of Discovery: 01/09/2013 9am

Was Immediate Notice Given?

☒ Yes ☐ No ☐ Not Required

If YES, To Whom?
M. Bratcher - NM OCD Terry Gregston-BLM

By Whom? Jose Hernandez

Date and Hour 01/09/2013 9:45am

Was a Watercourse Reached?

☐ Yes ☒ No

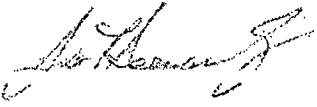
If YES, Volume Impacting the Watercourse.

If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: On 1-8-13 at 2130 Received alarm at Keel West for header discharge pressure. Line was shut in. Could not locate spill in dark. Found Leak on 1-9-13 at 0900. Leak was caused by failure in line at 2" collar.

Describe Area Affected and Cleanup Action Taken.*: Leak was located approximately 400' NE of J.L. Keel B #72. 2" Fiberglass HP Line was located 5' on E side of lease Rd. Spill covered 250' by 10' average S on lease Rd. and on side of Rd. in sandy soil. Estimated 40 BBL total. All fluids lost.

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: 

Printed Name: Joe Hernandez

Title: Production Foreman

E-mail Address: jernandez@linnenergy.com

Date: 01/10/2013

Phone: 575-942-9492

* Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Signed By 

Approval Date: JAN 17 2013

Expiration Date:

Conditions of Approval:

Attached ☐

Remediation per OCD Rule & Guidelines. SUBMIT REMEDIATION

PROPOSAL NO LATER THAN:

February 17, 2013

2 P-1505

Appendix B

Initial Sampling Labs

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

January 21, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL B #72 AD

Enclosed are the results of analyses for samples received by the laboratory on 01/15/13 13:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 01/15/2013
 Reported: 01/21/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 1 SURFACE (H300098-01)

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.60	0.500	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	16.2	0.500	01/18/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	19.7	0.500	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	31.9	1.50	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTEX	69.4	3.00	01/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 127 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	01/17/2013	ND	448	112	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	882	50.0	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	1990	50.0	01/16/2013	ND	196	98.2	200	6.49	

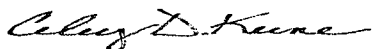
Surrogate: 1-Chlorooctane 129 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 01/15/2013
 Reported: 01/21/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 2 SURFACE (H300098-02)

BTEX 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	01/21/2013	ND	2.31	116	2.00	9.27	
Toluene*	0.296	0.050	01/21/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	1.04	0.050	01/21/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	2.77	0.150	01/21/2013	ND	6.51	109	6.00	8.17	
Total BTEX	4.11	0.300	01/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 180 % 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	2050	16.0	01/17/2013	ND	448	112	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	52.0	10.0	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	714	10.0	01/16/2013	ND	196	98.2	200	6.49	

Surrogate: 1-Chlorooctane 85.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.3 % 63.6-154

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*=Accredited Analyte

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 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 01/15/2013
 Reported: 01/21/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 3 SURFACE (H300098-03)

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	27.5	2.00	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	119	2.00	01/18/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	123	2.00	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	191	6.00	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTEX	461	12.0	01/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 130 % 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	3200	16.0	01/17/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5680	50.0	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	14300	50.0	01/16/2013	ND	196	98.2	200	6.49	

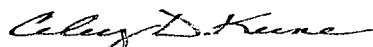
Surrogate: 1-Chlorooctane 167 % 65.2-140

Surrogate: 1-Chlorooctadecane 373 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 01/15/2013
 Reported: 01/21/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 01/09/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 4 SURFACE (H300098-04)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	26.4	1.00	01/18/2013	ND	2.31	116	2.00	9.27	
Toluene*	99.8	1.00	01/18/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	95.0	1.00	01/18/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	141	3.00	01/18/2013	ND	6.51	109	6.00	8.17	
Total BTEX	363	6.00	01/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 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	15000	16.0	01/17/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4410	50.0	01/16/2013	ND	188	93.8	200	6.01		
DRO >C10-C28	11900	50.0	01/16/2013	ND	196	98.2	200	6.49		


Surrogate: 1-Chlorooctane 156 % 65.2-140

Surrogate: 1-Chlorooctadecane 308 % 63.6-154

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*=Accredited Analyte

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112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 01/15/2013
Reported: 01/21/2013
Project Name: J. L. KEEL B #72 AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 01/09/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: PT. 5 SURFACE (H300098-05)

BTEX 8021B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	01/21/2013	ND	2.31	116	2.00	9.27	
Toluene*	0.155	0.100	01/21/2013	ND	1.98	98.9	2.00	8.91	
Ethylbenzene*	0.787	0.100	01/21/2013	ND	2.12	106	2.00	8.90	
Total Xylenes*	2.36	0.300	01/21/2013	ND	6.51	109	6.00	8.17	
Total BTEX	3.31	0.600	01/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 127 % 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	7360	16.0	01/17/2013	ND	448	112	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	53.5	10.0	01/16/2013	ND	188	93.8	200	6.01	
DRO >C10-C28	245	10.0	01/16/2013	ND	196	98.2	200	6.49	

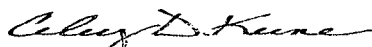
Surrogate: 1-Chlorooctane 68.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 73.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

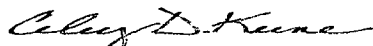
Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- 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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Celest D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>KECS</u>				BILL TO				ANALYSIS REQUEST															
Project Manager: <u>Bruce Baker</u>				P.O. #:																			
Address:				Company:																			
City:		State:		Zip:		Attn:																	
Phone #:		Fax #:		Address:																			
Project #:		Project Owner:		City:																			
Project Name: <u>5-L. Keel B # 79, J.D.</u>				State:																Zip:			
Project Location:				Phone #:																			
Sampler Name: <u>Dok Harris</u>				Fax #:																			
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV	SAMPLING		<div style="display: flex; justify-content: space-around;"> C TPH B-TEX </div>												
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE						ICE / COOL	OTHER	DATE	TIME				
1300098																							
1	PT. 1 Surface	6	1															1-9-13	1:46				
2	PT. 2 Surface	6	1															1-9-13	1:48				
3	PT. 3 Surface	6	1															1-9-13	1:50				
4	PT. 4 Surface	6	1															1-9-13	1:50				
5	PT. 5 Surface	6	1															1-9-13	2:00				

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Relinquished By: <u>Dok Harris</u>	Date: <u>1/9/13</u>	Received By: <u>Joel Benson</u>	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) Sampler - UPS - Bus - Other:	Time: <u>1:33</u>	Time:	REMARKS: <u>H Penner@kecs.com</u> <u>B Baker@kecs.com</u> <u>L Weinheimer@kecs.com</u>
	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <u>JK</u>	

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

Appendix C

Excavation Documentation

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

April 09, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL B #72 AD

Enclosed are the results of analyses for samples received by the laboratory on 04/09/13 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

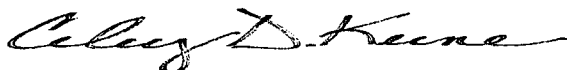
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 04/09/2013
Reported: 04/09/2013
Project Name: J. L. KEEL B #72 AD
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 04/05/2013
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

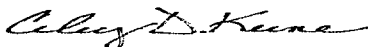
Sample ID: IMPORTED SOIL (H300842-01)

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	04/09/2013	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

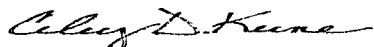
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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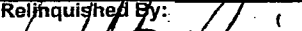




Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

<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: 	Date: 9/19/13 Time: 8:45	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS: B baker@rice-ecs.com H Conder@rice-ecs.com L Weinheimer@rice-ecs.com
Relinquished By: 	Date: Time: 	Received By: 	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No 15°C	CHECKED BY: (Initials) 	

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

April 10, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL B #72 AD

Enclosed are the results of analyses for samples received by the laboratory on 04/05/13 8:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

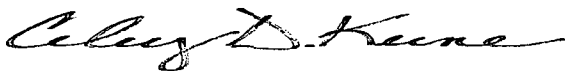
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/10/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 2FT
 Project Location: NOT GIVEN

 Sampling Date: 04/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BTTM CENTER (H300809-01)

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	04/09/2013	ND	2.15	107	2.00	8.81	
Toluene*	<0.050	0.050	04/09/2013	ND	2.42	121	2.00	9.15	
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.57	128	2.00	9.03	
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.47	124	6.00	8.65	
Total BTEX	<0.300	0.300	04/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	272	16.0	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90	

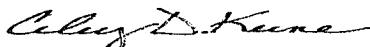
Surrogate: 1-Chlorooctane 78.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/10/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 2FT
 Project Location: NOT GIVEN

 Sampling Date: 04/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: N. WALL CENTER (H300809-02)

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	04/09/2013	ND	2.15	107	2.00	8.81	
Toluene*	<0.050	0.050	04/09/2013	ND	2.42	121	2.00	9.15	
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.57	128	2.00	9.03	
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.47	124	6.00	8.65	
Total BTEX	<0.300	0.300	04/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 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	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90	

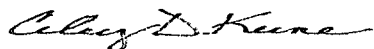
Surrogate: 1-Chlorooctane 79.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 04/05/2013
Reported: 04/10/2013
Project Name: J. L. KEEL B #72 AD
Project Number: EXCAVATION @ 2FT
Project Location: NOT GIVEN

Sampling Date: 04/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: E. WALL CENTER (H300809-03)

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	04/09/2013	ND	2.15	107	2.00	8.81	
Toluene*	<0.100	0.100	04/09/2013	ND	2.42	121	2.00	9.15	
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.57	128	2.00	9.03	
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.47	124	6.00	8.65	
Total BTEX	<0.300	0.300	04/09/2013	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	32.0	16.0	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90	

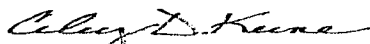
Surrogate: 1-Chlorooctane 79.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 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
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 04/05/2013
Reported: 04/10/2013
Project Name: J. L. KEEL B #72 AD
Project Number: EXCAVATION @ 2FT
Project Location: NOT GIVEN

Sampling Date: 04/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S. WALL CENTER (H300809-04)

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	04/09/2013	ND	2.15	107	2.00	8.81	
Toluene*	<0.050	0.050	04/09/2013	ND	2.42	121	2.00	9.15	
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.57	128	2.00	9.03	
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.47	124	6.00	8.65	
Total BTEX	<0.300	0.300	04/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 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	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77		
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90		

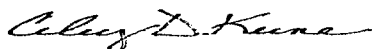
Surrogate: 1-Chlorooctane 82.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/10/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 2FT
 Project Location: NOT GIVEN

 Sampling Date: 04/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W. WALL CENTER (H300809-05)

BTX 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	04/09/2013	ND	1.80	90.1	2.00	2.86	
Toluene*	<0.100	0.100	04/09/2013	ND	2.12	106	2.00	2.58	
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.39	119	2.00	2.79	
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.12	119	6.00	2.45	
Total BTX	<0.300	0.300	04/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 109 % 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	32.0	16.0	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90	

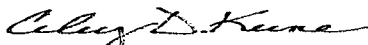
Surrogate: 1-Chlorooctane 83.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

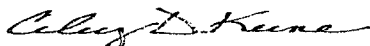
Notes and Definitions

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

Page 8 of 8

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Relinquished By: <i>Charles Harris</i> Date: <i>9/3/13</i> Time: <i>8:45</i>		Received By: <i>Jodi Henson</i> Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: _____ REMARKS: <i>Bbakere@rice-ecs.com</i> <i>hcondene@rice-ecs.com</i> <i>Lwanheim@rice-ecs.com</i>	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i> (Initials)	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 398-2326

ges to (575) 39

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/10/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 6IN
 Project Location: NOT GIVEN

 Sampling Date: 04/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: BTTM CENTER (H300810-01)

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	04/09/2013	ND	1.80	90.1	2.00	2.86	
Toluene*	<0.100	0.100	04/09/2013	ND	2.12	106	2.00	2.58	
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.39	119	2.00	2.79	
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.12	119	6.00	2.45	
Total BTEX	<0.300	0.300	04/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 107 % 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	128	16.0	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90	

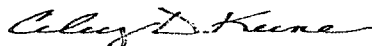
Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 04/05/2013
Reported: 04/10/2013
Project Name: J. L. KEEL B #72 AD
Project Number: EXCAVATION @ 6IN
Project Location: NOT GIVEN

Sampling Date: 04/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N. WALL CENTER (H300810-02)

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	04/09/2013	ND	1.80	90.1	2.00	2.86		
Toluene*	<0.100	0.100	04/09/2013	ND	2.12	106	2.00	2.58		
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.39	119	2.00	2.79		
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.12	119	6.00	2.45		
Total BTEX	<0.300	0.300	04/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 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	128	16.0	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77		
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90		

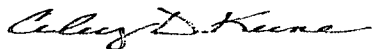
Surrogate: 1-Chlorooctane 71.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 98.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/10/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 6IN
 Project Location: NOT GIVEN

 Sampling Date: 04/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E. WALL CENTER (H300810-03)

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	04/09/2013	ND	1.80	90.1	2.00	2.86	
Toluene*	<0.100	0.100	04/09/2013	ND	2.12	106	2.00	2.58	
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.39	119	2.00	2.79	
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.12	119	6.00	2.45	
Total BTEX	<0.300	0.300	04/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PII) 108 % 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	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90	

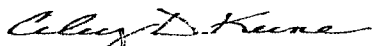
Surrogate: 1-Chlorooctane 84.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/10/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 6IN
 Project Location: NOT GIVEN

 Sampling Date: 04/03/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S. WALL CENTER (H300810-04)

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	04/09/2013	ND	1.80	90.1	2.00	2.86		
Toluene*	<0.050	0.050	04/09/2013	ND	2.12	106	2.00	2.58		
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.39	119	2.00	2.79		
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.12	119	6.00	2.45		
Total BTEX	<0.300	0.300	04/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 112 % 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	192	16.0	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90	

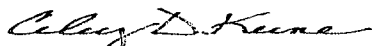
Surrogate: 1-Chlorooctane 79.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 04/05/2013
Reported: 04/10/2013
Project Name: J. L. KEEL B #72 AD
Project Number: EXCAVATION @ 6IN
Project Location: NOT GIVEN

Sampling Date: 04/03/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: W. WALL CENTER (H300810-05)

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	04/09/2013	ND	1.80	90.1	2.00	2.86		
Toluene*	<0.050	0.050	04/09/2013	ND	2.12	106	2.00	2.58		
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.39	119	2.00	2.79		
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.12	119	6.00	2.45		
Total BTEX	<0.300	0.300	04/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 110 % 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	48.0	16.0	04/09/2013	ND	448	112	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	04/06/2013	ND	208	104	200	7.77	
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90	

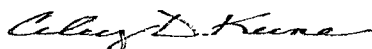
Surrogate: 1-Chlorooctane 86.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

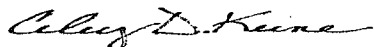
Notes and Definitions

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

Page 8 of 8



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

[illegible]

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Relinquished By: <i>Robert Harris</i>		Date: <i>4/13/13</i>	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
		Time: <i>3:45</i>		Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
		Time:		email results	
Delivered By: (Circle One)		Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:		Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		(Initials) <i>JH</i>	

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

#26



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

April 11, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL B #72 AD

Enclosed are the results of analyses for samples received by the laboratory on 04/05/13 16:20.

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.

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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 4FT
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S. WALL CENTER (H300828-01)

BTEX 80218			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2013	ND	1.80	90.1	2.00	2.86	
Toluene*	<0.050	0.050	04/09/2013	ND	2.12	106	2.00	2.58	
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.39	119	2.00	2.79	
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.12	119	6.00	2.45	
Total BTEX	<0.300	0.300	04/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

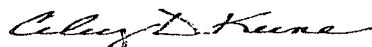
Surrogate: 1-Chlorooctane 79.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 04/05/2013
Reported: 04/11/2013
Project Name: J. L. KEEL B #72 AD
Project Number: EXCAVATION @ 4FT
Project Location: NOT GIVEN

Sampling Date: 04/05/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: N. WALL CENTER (H300828-02)

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	04/09/2013	ND	1.80	90.1	2.00	2.86		
Toluene*	<0.050	0.050	04/09/2013	ND	2.12	106	2.00	2.58		
Ethylbenzene*	<0.050	0.050	04/09/2013	ND	2.39	119	2.00	2.79		
Total Xylenes*	<0.150	0.150	04/09/2013	ND	7.12	119	6.00	2.45		
Total BTEX	<0.300	0.300	04/09/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 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	48.0	16.0	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49		
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89		

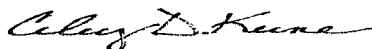
Surrogate: 1-Chlorooctane 81.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 4FT
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E. WALL CENTER (H300828-03)

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	04/10/2013	ND	1.65	82.6	2.00	1.39		
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66		
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63		
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22		
Total BTEx	<0.300	0.300	04/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 83.3 % 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	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49		
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89		

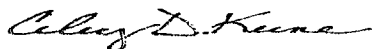
Surrogate: 1-Chlorooctane 85.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 4FT
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W. WALL CENTER (H300828-04)

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	04/10/2013	ND	1.65	82.6	2.00	1.39	
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66	
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63	
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22	
Total BTEx	<0.300	0.300	04/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 83.8 % 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	1790	16.0	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

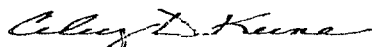
Surrogate: 1-Chlorooctane 75.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EXCAVATION @ 4FT
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CENTER BOTTOM (H300828-05)

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	04/10/2013	ND	1.65	82.6	2.00	1.39		
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66		
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63		
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22		
Total BTEX	<0.300	0.300	04/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 83.7 % 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	1300	16.0	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

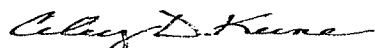
Surrogate: 1-Chlorooctane 74.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

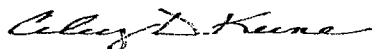
Notes and Definitions

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



1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

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

Company Name: RecS		BILL TO		ANALYSIS REQUEST																							
Project Manager: Bruce Baker		P.O. #:																									
Address:		Company:																									
City: State: Zip:		Attn:																									
Phone #: Fax #:		Address:																									
Project #: Project Owner:		City:																									
Project Name: 5.6 Reel B #072		State: Zip:																									
Project Location: Excavation 24'		Phone #:																									
Sampler Name: Dakston Harris		Fax #:																									
FOR LAB USE ONLY		MATRIX		PRESERV.		SAMPLING																					
Lab I.D.	Sample I.D.	(GRAB OR COMPOUND)	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
H300828B																											
1	S. Wall Center	G	1			✓				✓			4/5/13	10:30	✓	✓	✓										
2	N. Wall Center	G	1			✓				✓			4/5/13	12:25	✓	✓	✓										
3	E. Wall Center	G	1			✓				✓			4/5/13	12:40	✓	✓	✓										
4	W. Wall Center	G	1			✓				✓			4/5/13	12:45	✓	✓	✓										
5	Center bttm	G	1			✓				✓			4/5/13	12:50	✓	✓	✓										

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Relinquished By: <i>Dakston Harris</i>	Date: 4/5/13 Time: 4:20	Received By: <i>odi Benson</i>	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) Sampler - UPS - Bus - Other:			REMARKS: h.corderer@ecs.com b.baker@ria-ecs.com c.weinheimer@ria-ecs.com	
Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>			CHECKED BY: <i>[Signature]</i>	

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

#216

April 11, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL B #72 AD

Enclosed are the results of analyses for samples received by the laboratory on 04/05/13 16:20.

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/ga/lab_accred_certif.html.

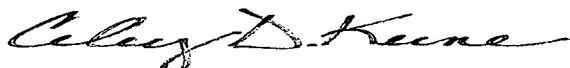
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

RICE ENVIRONMENTAL CONSULTING & SAFETY
BRUCE BAKER
112 W. TAYLOR
HOBBS NM, 88240
Fax To: (575) 397-1471

Received: 04/05/2013
Reported: 04/11/2013
Project Name: J. L. KEEL B #72 AD
Project Number: EAST FINGER EXC. @ 4FT
Project Location: NOT GIVEN

Sampling Date: 04/05/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: E. WALL CENTER (H300829-01)

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	04/10/2013	ND	1.65	82.6	2.00	1.39	
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66	
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63	
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22	
Total BTEX	<0.300	0.300	04/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 83.2 % 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	560	16.0	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

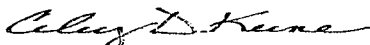
Surrogate: 1-Chlorooctane 72.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EAST FINGER EXC. @ 4FT
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S. WALL CENTER (H300829-02)

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	04/10/2013	ND	1.65	82.6	2.00	1.39	
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66	
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63	
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22	
Total BTEX	<0.300	0.300	04/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 84.8 % 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	48.0	16.0	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

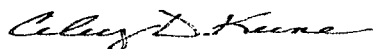
Surrogate: 1-Chlorooctane 87.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: EAST FINGER EXC. @ 4FT
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W. WALL CENTER (H300829-03)

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	04/10/2013	ND	1.65	82.6	2.00	1.39		
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66		
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63		
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22		
Total BTEX	<0.300	0.300	04/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 83.5 % 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	272	16.0	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

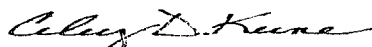
Surrogate: 1-Chlorooctane 93.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6

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

76

April 11, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL B #72 AD

Enclosed are the results of analyses for samples received by the laboratory on 04/05/13 16:20.

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/ga/lab_accred_certif.html.

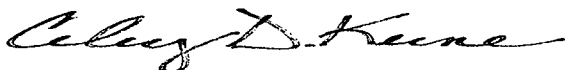
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: WEST FINGER
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: E. WALL CENTER (H300830-01)

BTX 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	04/10/2013	ND	1.65	82.6	2.00	1.39	
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66	
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63	
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22	
Total BTX	<0.300	0.300	04/10/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 84.2 % 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	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

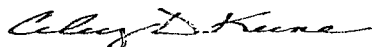
Surrogate: 1-Chlorooctane 94.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: WEST FINGER
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S. WALL CENTER (H300830-02)

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	04/10/2013	ND	1.65	82.6	2.00	1.39		
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66		
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63		
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22		
Total BTEX	<0.300	0.300	04/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 83.8 % 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	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

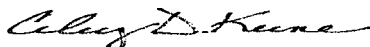
Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 RICE ENVIRONMENTAL CONSULTING & SAFETY
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: WEST FINGER
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: W. WALL CENTER (H300830-03)

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	04/10/2013	ND	1.65	82.6	2.00	1.39		
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66		
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63		
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22		
Total BTEx	<0.300	0.300	04/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 84.0 % 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	04/09/2013	ND	432	108	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	04/09/2013	ND	198	98.9	200	2.49	
DRO >C10-C28	<10.0	10.0	04/09/2013	ND	195	97.3	200	4.89	

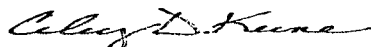
Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 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
 BRUCE BAKER
 112 W. TAYLOR
 HOBBS NM, 88240
 Fax To: (575) 397-1471

 Received: 04/05/2013
 Reported: 04/11/2013
 Project Name: J. L. KEEL B #72 AD
 Project Number: WEST FINGER
 Project Location: NOT GIVEN

 Sampling Date: 04/05/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: PT. 6 SURFACE (H300830-04)

BTX 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	04/10/2013	ND	1.65	82.6	2.00	1.39		
Toluene*	<0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66		
Ethylbenzene*	<0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63		
Total Xylenes*	<0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22		
Total BTX	<0.300	0.300	04/10/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 85.5 % 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	96.0	16.0	04/09/2013	ND	432	108	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	04/10/2013	ND	211	105	200	4.47	
DRO >C10-C28	<10.0	10.0	04/10/2013	ND	208	104	200	4.21	

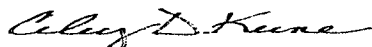
Surrogate: 1-Chlorooctane 92.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

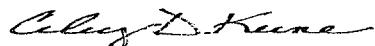
Notes and Definitions

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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Celest D. Keene, Lab Director/Quality Manager



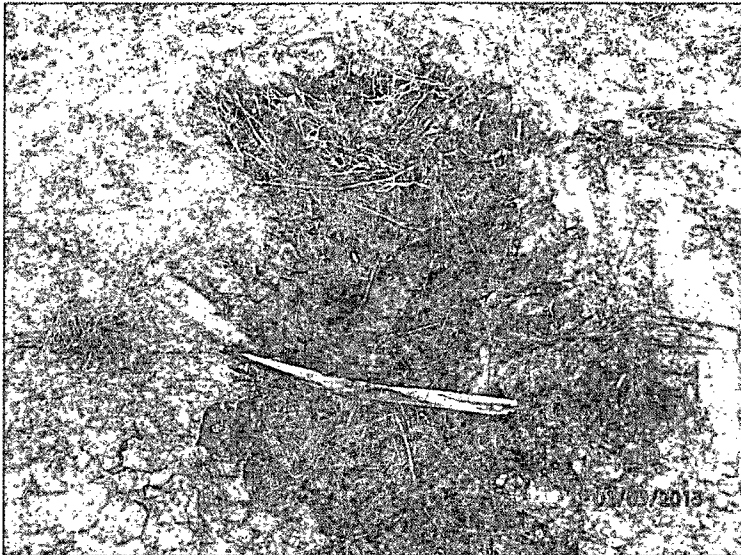
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

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#26

Linn J.L.Keel B #72 AD
Unit Letter I, Section 5, T17S, R31E



Release source, facing east

1/9/13



Initial release area, facing south

1/9/13



Initial release area, facing north

1/9/13



Initial release area, facing north

1/9/13



Initial release area, facing north

1/9/13



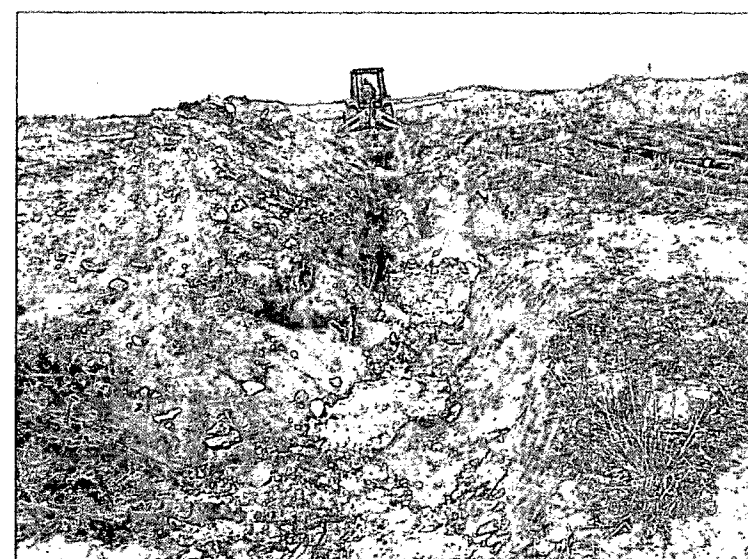
Initial release area, facing north

1/9/13



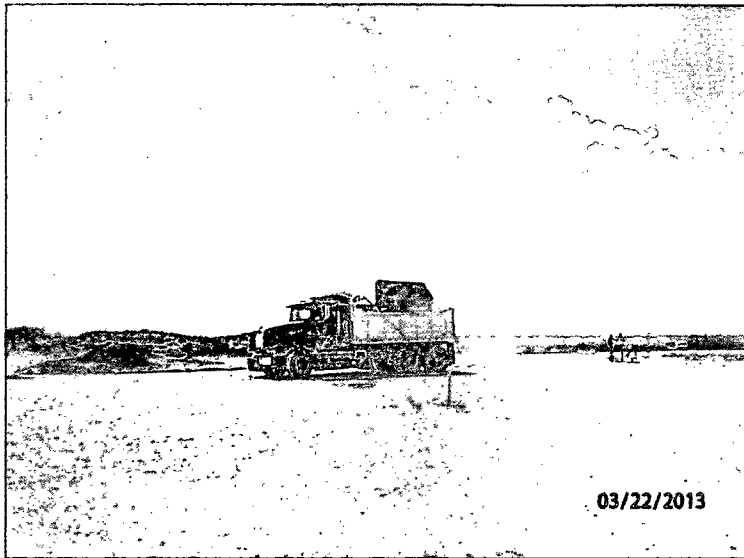
Excavating release area, facing west

3/20/13



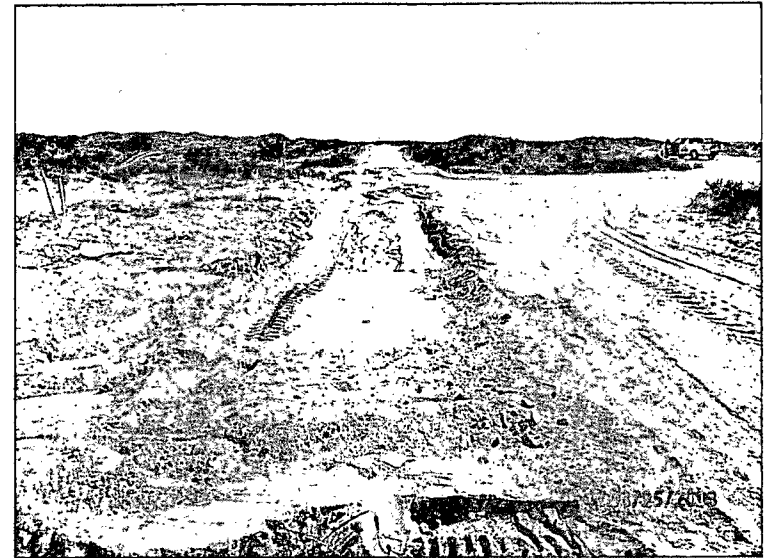
Excavating release area, facing north

3/20/13



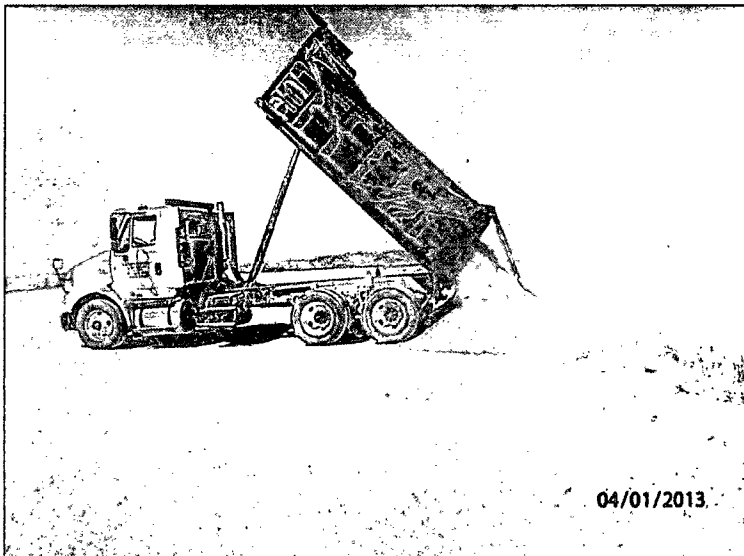
Exporting soil, facing south

3/22/13



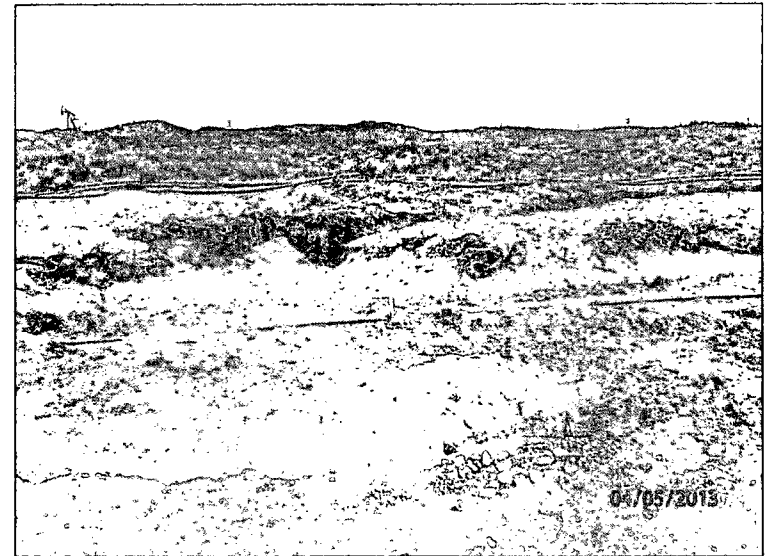
Final scrape in road, facing south

3/25/13



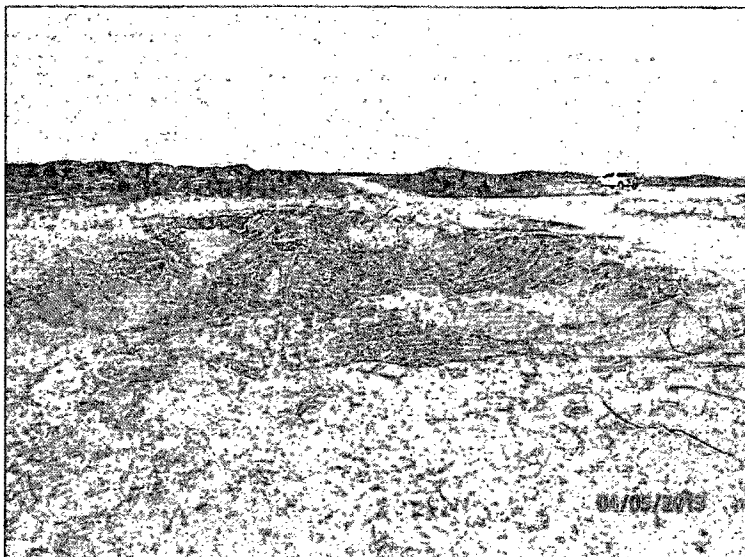
Importing soil, facing west

4/1/13



Final excavation, facing east

4/5/13



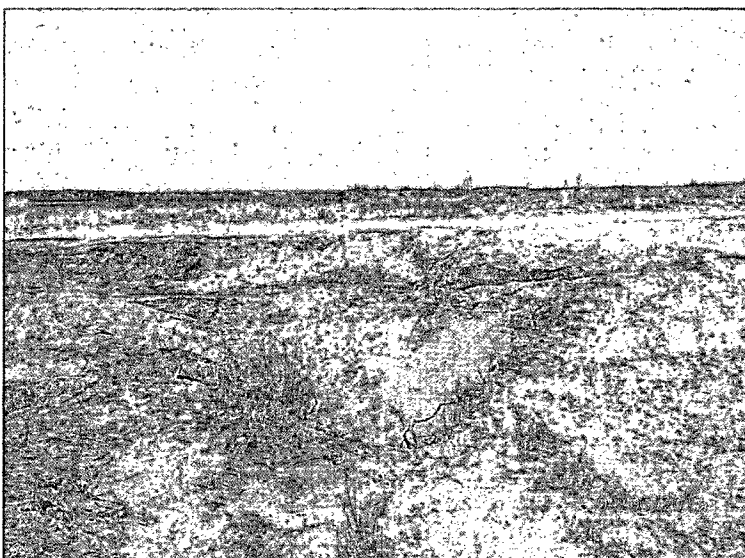
Final excavation, facing south

4/5/13



Final excavation, facing south

4/5/13



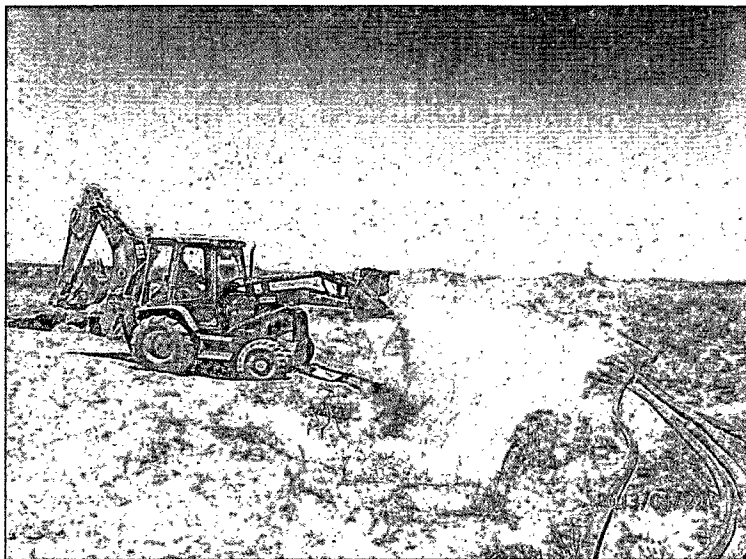
Final excavation, facing west

4/5/13



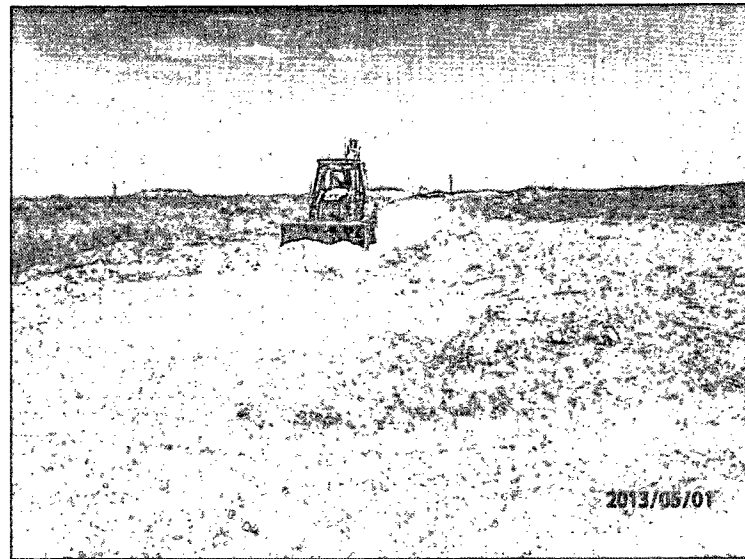
Final excavation, facing west

4/5/13



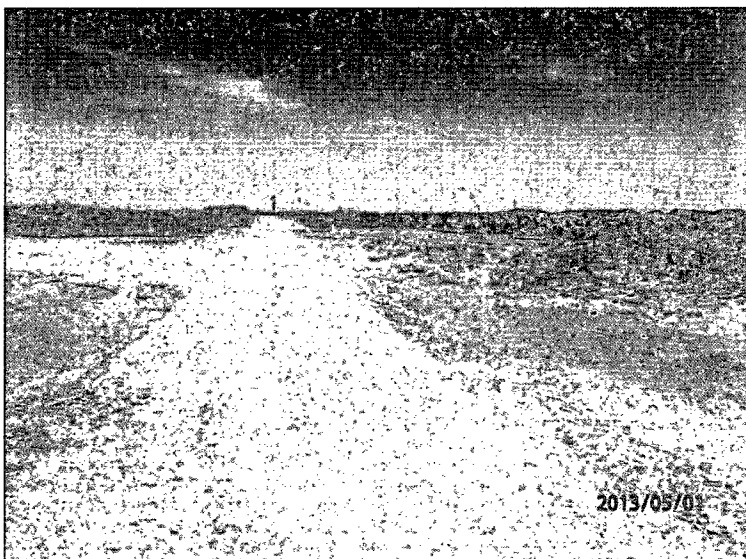
Backfilling the site, facing north

4/29/13



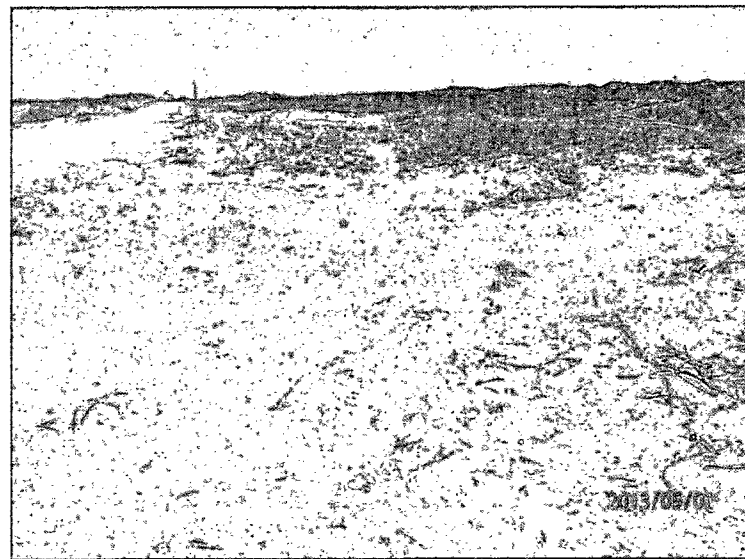
Backfilling the road with caliche, facing north

5/1/13



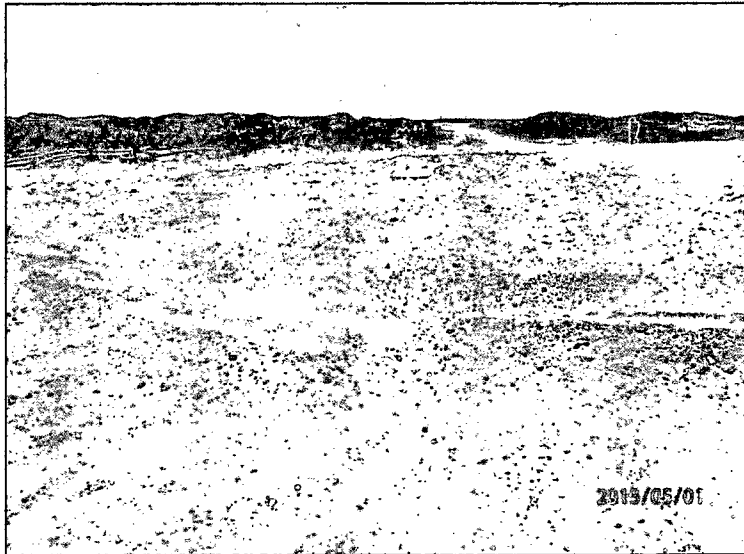
Final site photo, facing north

5/1/13



Backfilled excavation, facing north

5/1/13



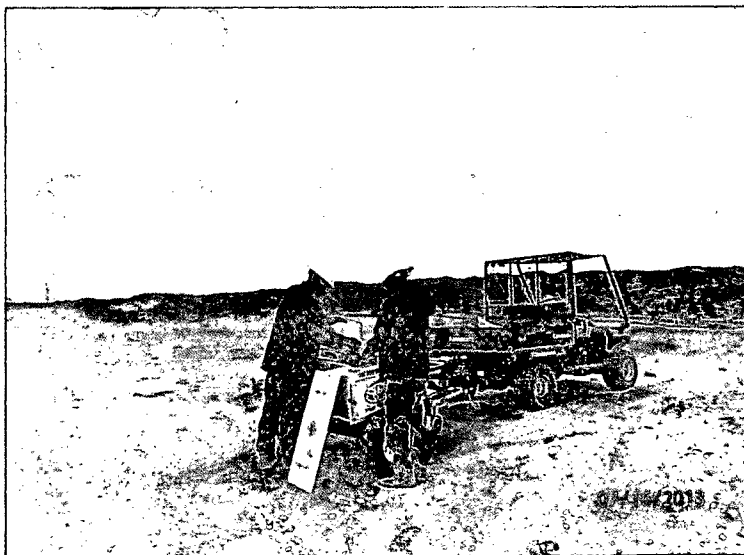
Final excavation, facing south

5/1/13



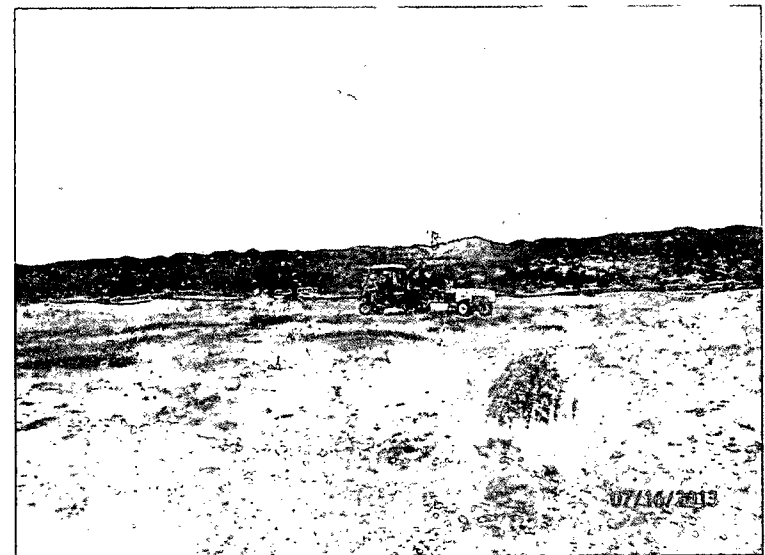
Final excavation, facing north

5/1/13



Seeding the site, facing northeast

7/16/13



Seeding the site, facing northeast

7/16/13

Appendix D

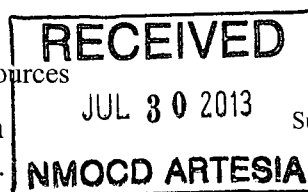
Final Form C-141

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 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Linn Operating	Contact Gary Wink	
Address 2130 W. Bender Blvd. Hobbs, NM 88240	Telephone No. (575) 738-1739	
Facility Name J.L. Keel B #072	Facility Type Injection	
Surface Owner BLM	Mineral Owner BLM	Lease No. 3001528580

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	5	17S	31E	2230'	FSL	760'	FEL	Eddy

Latitude 32.86242 Longitude -103.88504

NATURE OF RELEASE

Type of Release Produced Water/Oil	Volume of Release 35 bbls/5 bbls	Volume Recovered 0/0
Source of Release 2" Fiberglass HP line	Date and Hour of Occurrence 1/8/2013 9:30 am	Date and Hour of Discovery 1/9/2013 9:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher, NMOCD; Terry Gregston, BLM	
By Whom? Jose Hernandez	Date and Hour 1/9/13 9:45 am	
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.* On 1/8/13 at 2130 Linn received an alarm at the Keel West for header discharge pressure. The line was shut in but the leak could not be located in the dark. The leak was found on 1/9/13 at 0900 hrs. The leak was caused by a failure in line at 2" collar. A total of 5,576 sq ft of road and pasture were affected.

Describe Area Affected and Cleanup Action Taken.*

On January 9th, 2013, RECS personnel were on site to initialize work on the J.L. Keel B #72. Soil samples were taken from the surface of the release (Figure 1) and the samples were taken to a commercial laboratory for analysis of chlorides, GRO and DRO. Based on the sampling data, Linn submitted a Corrective Action Plan (CAP) on March 8th, 2013. BLM approved this CAP on March 11th, 2013 with the following conditions:

1. Confirmatory samples of the bottom and sidewalls would need to be taken of the pasture area;
2. The site should be backfilled with native soils matching the surrounding terrain, re-contoured, and seeded using the LPC seed mix.

Site excavation began on March 20th, 2013. The lease road was scraped down six inches. The release areas in the north pasture were excavated down four feet and the release areas in the south pasture were excavated down six inches and two feet (Figure 2). A total of 384 yards of soil was taken to a NMOCD approved facility for disposal. Representative samples from the pasture areas were taken to a commercial laboratory for analysis of chlorides, TPH and BTEX. A surface sample was taken at Pt. 6 and taken to a commercial laboratory for analysis of chlorides, TPH and BTEX. The laboratory chloride reading returned a result of 96 mg/kg and TPH and BTEX readings of non-detect. BLM verbally approved the backfilling of the site and the site was backfilled with clean, imported soil. A total of 396 yards of caliche and top soil was imported to the site to serve as backfill. A sample of the imported soil was taken to a commercial laboratory for analysis of chlorides and returned a result of non-detect. The site was backfilled and contoured to the surrounding location. The site was backfilled, was contoured to the surrounding location, and was seeded on July 16th, 2013 with LPC seed mix.

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 Wink	Approved by District Supervisor:		
Title: Production Foreman	Approval Date:	Expiration Date:	
E-mail Address: gawink@linenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 7/19/13	Phone: (575) 738-1739		

* Attach Additional Sheets If Necessary