

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,



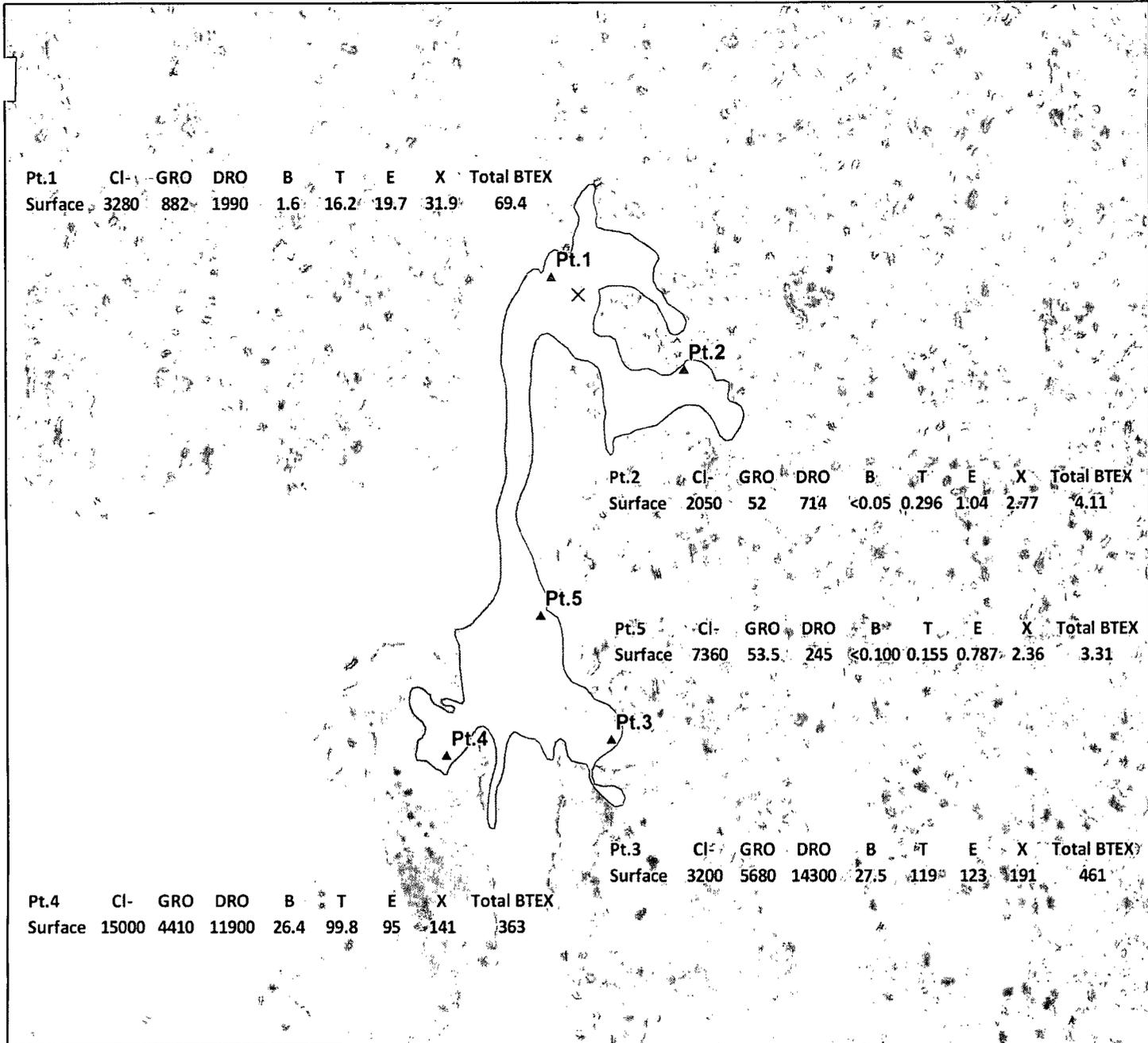
Bruce Baker
Project Manager
RECS
(575) 631-5157

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



Legend

- × SOURCE
- ▲ SAMPLE POINT
- STAIN (5,576 SQ FT)

DGW = none

Landowner = BLM

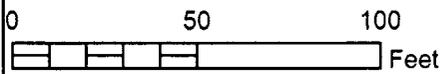
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**LINN J.L.
KEEL B #72 AD**

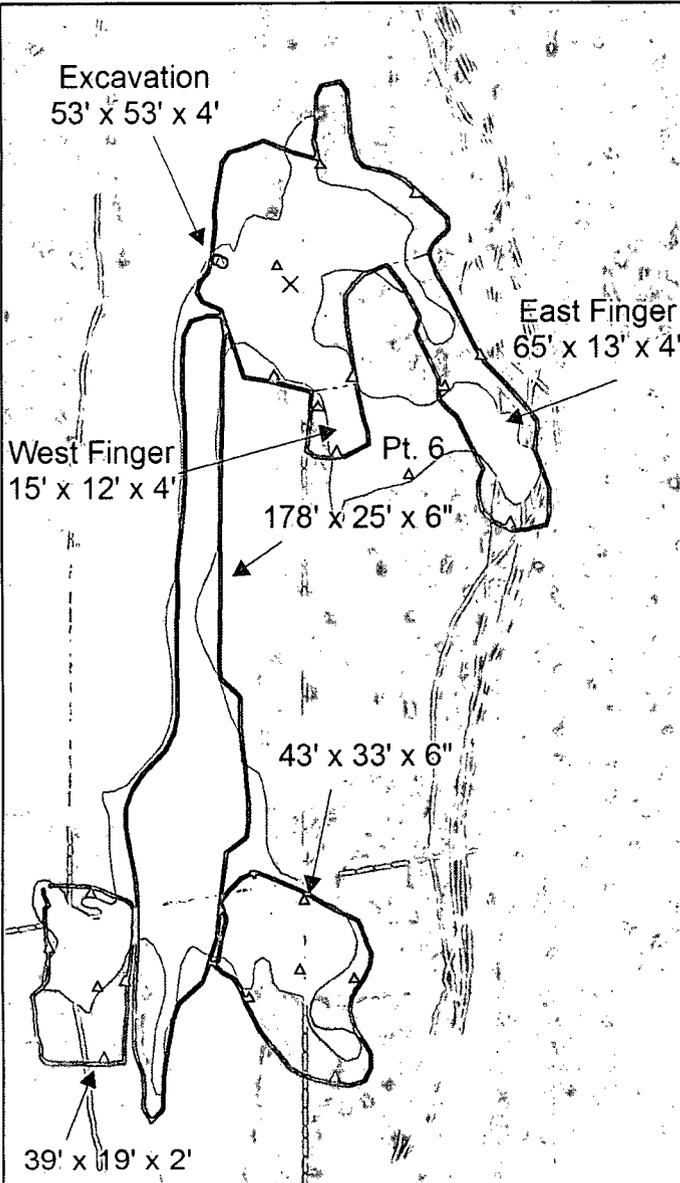
LEGALS: UL/I SEC 5
T17S R31E
EDDY COUNTY, NM

Figure 1



GPS date: 1/9/2013 DH
Drawing date: 1/10/2013
Drafted by: A.C.Ruth

Final Sampling Data



Legend

- △ FINAL SAMPLE POINTS
- × SOURCE
- SCRAPES
- - - - BURIED PIPELINE
- SURFACE POLY PIPELINE
- STAIN (5,576 SQ FT)

Pt. 6		Lab Cl.	GRO	DRO	B	T	E	X	Total BTEX
Surface		96	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
West Finger at 4'		Lab Cl.	GRO	DRO	B	T	E	X	Total BTEX
E.WALL CENTER		<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
S.WALL CENTER		<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
W.WALL CENTER		<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
East Finger at 4'		Lab Cl.	GRO	DRO	B	T	E	X	Total BTEX
E.WALL CENTER		560	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
S.WALL CENTER		48	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
W.WALL CENTER		272	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Excavation at 4'		Lab Cl.	GRO	DRO	B	T	E	X	Total BTEX
BTM CENTER		1300	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
N.WALL CENTER		48	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
E.WALL CENTER		<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
S.WALL CENTER		<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
W.WALL CENTER		1790	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Excavation at 6"		Lab Cl.	GRO	DRO	B	T	E	X	Total BTEX
BTM CENTER		128	<10	<10	<0.05	<0.1	<0.05	<0.15	<0.3
N.WALL CENTER		128	<10	<10	<0.05	<0.1	<0.05	<0.15	<0.3
E.WALL CENTER		<16	<10	<10	<0.05	<0.1	<0.05	<0.15	<0.3
S.WALL CENTER		192	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
W.WALL CENTER		48	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
Excavation at 2'		Lab Cl.	GRO	DRO	B	T	E	X	Total BTEX
BTM CENTER		272	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
N.WALL CENTER		<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
E.WALL CENTER		32	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
S.WALL CENTER		<16	<10	<10	<0.05	<0.05	<0.05	<0.15	<0.3
W.WALL CENTER		32	<10	<10	<0.05	<0.1	<0.05	<0.15	<0.3

DGW = none
Landowner = BLM

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**LINN J.L.
KEEL B #72 AD**

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

Figure 2

0 40 80
Feet

GPS date: 4/5/13 DH
Drawing date: 4/11/13
Drafted by: L. Weinheimer

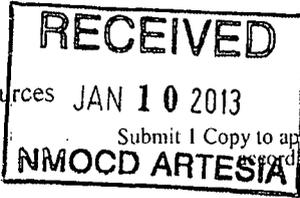
Appendix A

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



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

njmw/1301753978

OPERATOR Initial Report Final Report

Name of Company: Linn Operating <i>269324</i>	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	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	05	17S	31E	2230	South	760	East	Eddy

Latitude: 32.86242 Longitude: -103.88504

NATURE OF RELEASE

Type of Release: Produced Water / Oil
 Source of Release: 2" Fiberglass HP line
 Was Immediate Notice Given? Yes No Not Required
 By Whom? Jose Hernandez
 Was a Watercourse Reached? Yes No
 If a Watercourse was Impacted, Describe Fully.*:

Volume of Release: 35 bbls / 5 bbls
 Volume Recovered: 0 / 0
 Date and Hour of Occurrence: 01/08/2013 9:30 n
 Date and Hour of Discovery: 01/09/2013 9am
 If YES, To Whom?
 M. Bratcher - NM OCD Terry Gregston-BLM
 Date and Hour 01/09/2013 9:45am
 If YES, Volume Impacting the Watercourse.

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: *Joe Hernandez*
 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: *Mike Beaman*
 Approval Date: **JAN 17 2013** Expiration Date: _____

Conditions of Approval: Remediation per OCD Rule & Guidelines. **SUBMIT REMEDIATION PROPOSAL NO LATER THAN: February 17, 2013**
 Attached **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	Sampling Date:	01/09/2013
Reported:	01/21/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 (PIC) 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

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. 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, SM4500CI-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

Cardinal Laboratories

* = Accredited Analyte

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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			

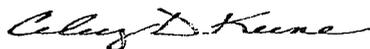
Surrogate: 1-Chlorooctane 156 % 65.2-140

Surrogate: 1-Chlorooctadecane 308 % 63.6-154

Cardinal Laboratories

*=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		

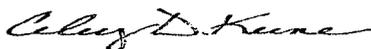
Surrogate: 1-Chlorooctane 68.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 73.9 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

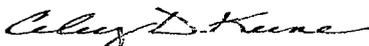
Notes and Definitions

- 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

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*=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

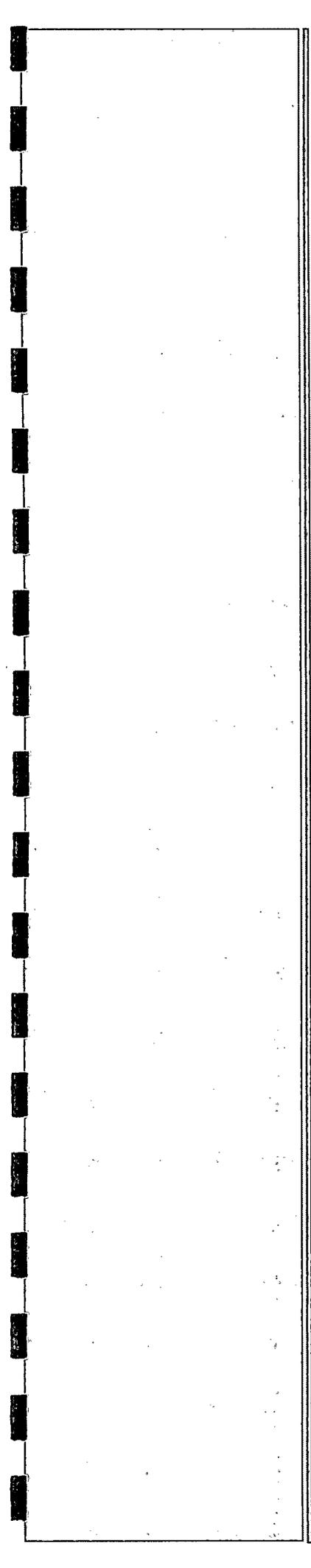
Company Name: <u>RECS</u>		BILL TO		ANALYSIS REQUEST																																																																																																																																									
Project Manager: <u>Bruce Baker</u>		P.O. #:																																																																																																																																											
Address:		Company:																																																																																																																																											
City: State: Zip:		Attn:																																																																																																																																											
Phone #: Fax #:		Address:																																																																																																																																											
Project #: Project Owner:		City:																																																																																																																																											
Project Name: <u>J-L. Keel B # 79, JLD</u>		State: Zip:																																																																																																																																											
Project Location:		Phone #:																																																																																																																																											
Sampler Name: <u>Dak Harris</u>		Fax #:																																																																																																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">FOR LAB USE ONLY</th> <th rowspan="2">Lab I.D.</th> <th rowspan="2">Sample I.D.</th> <th rowspan="2">(G)RAB OR (C)OMP.</th> <th rowspan="2"># CONTAINERS</th> <th colspan="5">MATRIX</th> <th colspan="3">PRESERV</th> <th colspan="2">SAMPLING</th> </tr> <tr> <th>GROUNDWATER</th> <th>WASTEWATER</th> <th>SOIL</th> <th>OIL</th> <th>SLUDGE</th> <th>OTHER</th> <th>ACID/BASE</th> <th>ICE / COOL</th> <th>OTHER</th> <th>DATE</th> <th>TIME</th> </tr> </thead> <tbody> <tr> <td></td> <td><u>H300098</u></td> <td></td> </tr> <tr> <td></td> <td><u>1</u></td> <td><u>PT. 1 Surface</u></td> <td><u>6</u></td> <td><u>1</u></td> <td></td> </tr> <tr> <td></td> <td><u>2</u></td> <td><u>PT. 2 Surface</u></td> <td><u>6</u></td> <td><u>1</u></td> <td></td> </tr> <tr> <td></td> <td><u>3</u></td> <td><u>PT. 3 Surface</u></td> <td><u>6</u></td> <td><u>1</u></td> <td></td> </tr> <tr> <td></td> <td><u>4</u></td> <td><u>PT. 4 Surface</u></td> <td><u>6</u></td> <td><u>1</u></td> <td></td> </tr> <tr> <td></td> <td><u>5</u></td> <td><u>PT. 5 Surface</u></td> <td><u>6</u></td> <td><u>1</u></td> <td></td> </tr> </tbody> </table>																FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV			SAMPLING		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME		<u>H300098</u>															<u>1</u>	<u>PT. 1 Surface</u>	<u>6</u>	<u>1</u>												<u>2</u>	<u>PT. 2 Surface</u>	<u>6</u>	<u>1</u>												<u>3</u>	<u>PT. 3 Surface</u>	<u>6</u>	<u>1</u>												<u>4</u>	<u>PT. 4 Surface</u>	<u>6</u>	<u>1</u>												<u>5</u>	<u>PT. 5 Surface</u>	<u>6</u>	<u>1</u>																				
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Relinquished By: <u>Dak Harris</u>	Date: <u>11/13/13</u> Time: <u>1:33</u>	Received By: <u>Jodi Jensen</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:	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <u>-10°C</u> <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: <u>JH</u> (Initials)	REMARKS: <u>H@cardinal-lab.com</u> <u>B.baker@cardinal-lab.com</u> <u>Lweinheimer@cardinal-lab.com</u>

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

#26



Appendix C

Excavation Documentation

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



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

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/09/2013	Sampling Date:	04/05/2013
Reported:	04/09/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

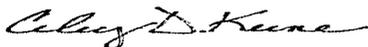
Sample ID: IMPORTED SOIL (H300842-01)

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

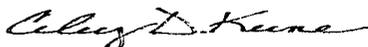
Notes and Definitions

- 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



CARDINAL Laboratories

1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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: J.L. Keel B #02A		State:	Zip:																					
Project Location:		Phone #:																						
Sampler Name: Dakston Harris		Fax #:																						
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS											MATRIX					PRESERV.	SAMPLING				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME										
H300842	Imported Soil	6	1			<input checked="" type="checkbox"/>							4/5/13	1:00										

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Relinquished By: <i>Dakston Harris</i>	Date: 4/1/13	Received By: <i>Jodi Jensen</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 8:45		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<i>B.baker@recc-ecs.com</i>	
			<i>HCondre@recc-ecs.com</i>	
			<i>L.Weinheimer@recc-ecs.com</i>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>	(Initials)		
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<i>[Signature]</i>		

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

#215

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.

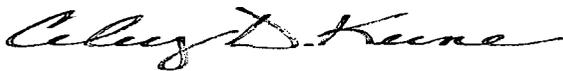
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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 (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	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		

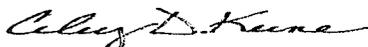
Surrogate: 1-Chlorooctane 78.7 % 65.2-140

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, SM4500CI-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		

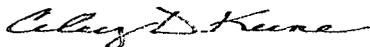
Surrogate: 1-Chlorooctane 79.3 % 65.2-140

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		

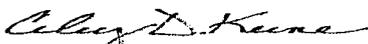
Surrogate: 1-Chlorooctane 79.7 % 65.2-140

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 (PIC) 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		

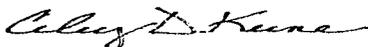
Surrogate: 1-Chlorooctane 82.7 % 65.2-140

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)

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) 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		

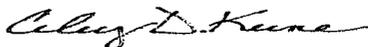
Surrogate: 1-Chlorooctane 83.1 % 65.2-140

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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Celest D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <i>Recs</i>		BILL TO		ANALYSIS REQUEST											
Project Manager: <i>Bruce Baker</i>		P.O. #:													
Address:		Company:													
City:	State:	Zip:	Attn:												
Phone #:	Fax #:	Address:													
Project #:	Project Owner:		City:												
Project Name: <i>J.L. Keel BH72</i>	State:		Zip:												
Project Location: <i>Excavation e 2'</i>	Phone #:														
Sampler Name: <i>Dakston Harris</i>	Fax #:														
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(GRAB OR C/OMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING					
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME		
<i>H300909</i>															
<i>1</i>	<i>BHAM Center</i>	<i>6-1</i>			<i>✓</i>				<i>✓</i>			<i>4/3/13</i>	<i>11:00</i>	<i>✓</i>	
<i>2</i>	<i>N. Wall Center</i>	<i>6-1</i>			<i>✓</i>				<i>✓</i>			<i>4/3/13</i>	<i>11:05</i>	<i>✓</i>	
<i>3</i>	<i>E. Wall Center</i>	<i>6-1</i>			<i>✓</i>				<i>✓</i>			<i>4/3/13</i>	<i>11:10</i>	<i>✓</i>	
<i>4</i>	<i>S. Wall Center</i>	<i>6-1</i>			<i>✓</i>				<i>✓</i>			<i>4/3/13</i>	<i>11:15</i>	<i>✓</i>	
<i>5</i>	<i>W. Wall Center</i>	<i>6-1</i>			<i>✓</i>				<i>✓</i>			<i>4/3/13</i>	<i>11:20</i>	<i>✓</i>	

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Relinquished By: <i>Dakston Harris</i>	Date: <i>4/3/13</i>	Received By: <i>Jodi Henson</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <i>8:45</i>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<i>Bbakere@rice-ecs.com</i>	
Delivered By: (Circle One)		Sample Condition	<i>hcondene@rice-ecs.com</i>	
Sampler - UPS - Bus - Other:		Cool Intact	<i>Lwanheim@rice-ecs.com</i>	
		<input type="checkbox"/> Yes <input type="checkbox"/> No		
		<input type="checkbox"/> Yes <input type="checkbox"/> No		

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

#126

Analytical Results For:

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

Received:	04/05/2013	Sampling Date:	04/03/2013
Reported:	04/10/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION @ 6IN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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		

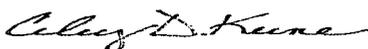
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/06/2013	ND	208	104	200	7.77		
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90		

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 (PIC) 107 % 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	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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* = 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	Sampling Date:	04/03/2013
Reported:	04/10/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION @ 6IN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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	

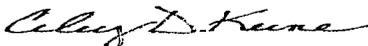
Surrogate: 1-Chlorooctane 84.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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* = 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	Sampling Date:	04/03/2013
Reported:	04/10/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION @ 6IN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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		

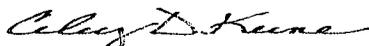
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/06/2013	ND	208	104	200	7.77		
DRO >C10-C28	<10.0	10.0	04/06/2013	ND	206	103	200	6.90		

Surrogate: 1-Chlorooctane 79.0 % 65.2-140
Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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	Sampling Date:	04/03/2013
Reported:	04/10/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION @ 6IN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 (PIC) 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		

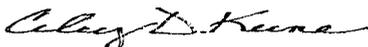
Surrogate: 1-Chlorooctane 86.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

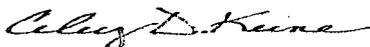
Notes and Definitions

- 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



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,

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

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 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 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 (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		

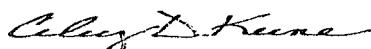
Surrogate: 1-Chlorooctane 79.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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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: 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

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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: 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 (PIC) 83.3 % 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	<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

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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

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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	Sampling Date:	04/05/2013
Reported:	04/11/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	EXCAVATION @ 4FT	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 (PII) 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		

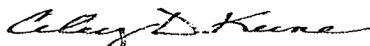
Surrogate: 1-Chlorooctane 74.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

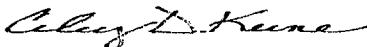
Notes and Definitions

- 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

Cardinal Laboratories

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Celestine D. Keene, Lab Director/Quality Manager

1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

 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 Keel B #072	State:		Zip:																		
Project Location: Excavation @ 4'	Phone #:																				
Sampler Name: Dakston Harris	Fax #:																				
FOR LAB USE ONLY																					
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME								
H300828																					
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	✓	✓	✓					

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>Dakston Harris</i>	Date: 4/5/13	Received By: <i>odi Jensen</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 4:20		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<i>h.candere@rcs.ecs.com</i> <i>b.baker@rcs.ecs.com</i> <i>C.Weinheimer@rcs.ecs.com</i>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Intact <input type="checkbox"/>	(Initials)		
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<i>[Signature]</i>		

#216



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/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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/11/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	EAST FINGER EXC. @ 4FT	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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		

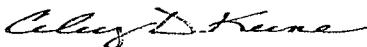
Surrogate: 1-Chlorooctane 72.9 % 65.2-140

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	Sampling Date:	04/05/2013
Reported:	04/11/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	EAST FINGER EXC. @ 4FT	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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		

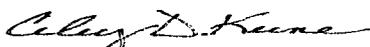
Surrogate: 1-Chlorooctane 87.5 % 65.2-140

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	Sampling Date:	04/05/2013
Reported:	04/11/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	EAST FINGER EXC. @ 4FT	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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 (PID) 83.5 % 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	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

1081

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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: J.L. Kaulb # 72			State:													Zip:		
Project Location: East Finger Excavation #4			Phone #:															
Sampler Name: Dakston Harris			Fax #:															
FOR LAB USE ONLY																		
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME	CI	TPH	BTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER						
H300829	1 E. Wall Center	G	1			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4/5/13	10:55	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	2 S. Wall Center	G	1			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4/5/13	1:00	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
	3 W. Wall Center	G	1			<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	4/5/13	1:05	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Dakston Harris	Date: 4/5/13	Time: 4:50	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Time:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	Sample Condition		CHECKED BY: (Initials)	REMARKS:	
Sampler - UPS - Bus - Other:	Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	[Signature]	h. condere@rice-ecs.com b. baker@rice-ecs.com l. weinheimer@rice-ecs.com	

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

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.

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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, flowing "C" at the beginning.

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)

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 (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		

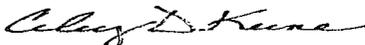
Surrogate: 1-Chlorooctane 94.8 % 65.2-140

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	Sampling Date:	04/05/2013
Reported:	04/11/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	WEST FINGER	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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		

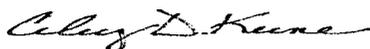
Surrogate: 1-Chlorooctane 95.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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: 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

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

Received:	04/05/2013	Sampling Date:	04/05/2013
Reported:	04/11/2013	Sampling Type:	Soil
Project Name:	J. L. KEEL B #72 AD	Sampling Condition:	Cool & Intact
Project Number:	WEST FINGER	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

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 (PIC) 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		

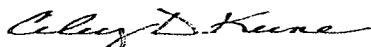
Surrogate: 1-Chlorooctane 92.8 % 63.2-140

Surrogate: 1-Chlorooctadecane 113 % 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

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

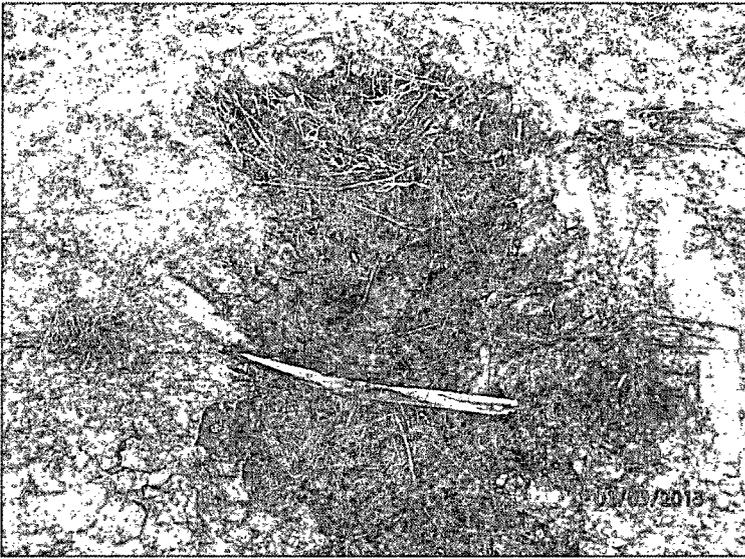
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived 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

Linn J.L.Keel B #72 AD

Unit Letter I, Section 5, T17S, R31E



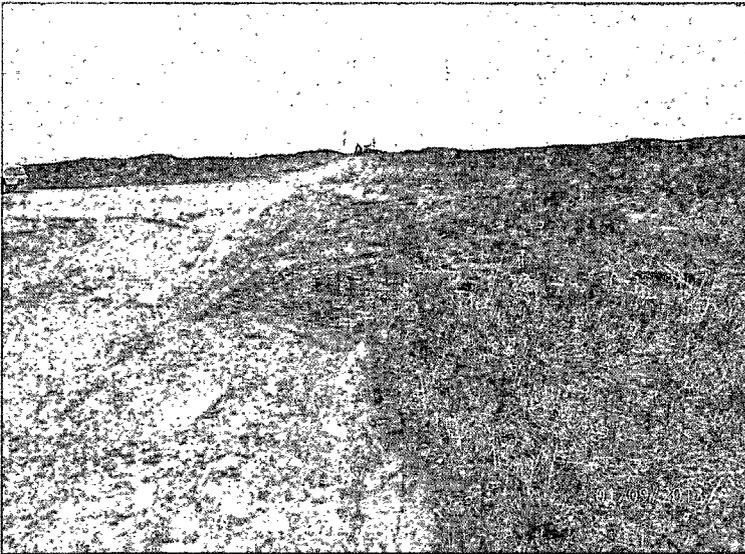
Release source, facing east

1/9/13



Initial release area, facing south

1/9/13



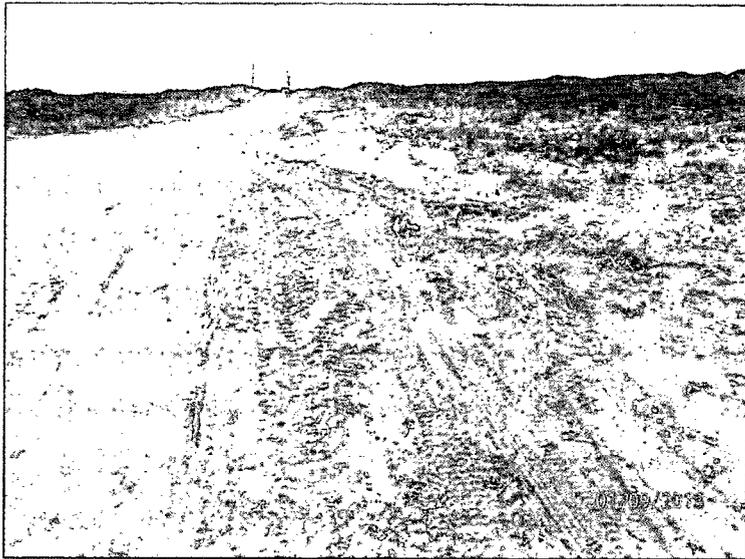
Initial release area, facing north

1/9/13



Initial release area, facing north

1/9/13



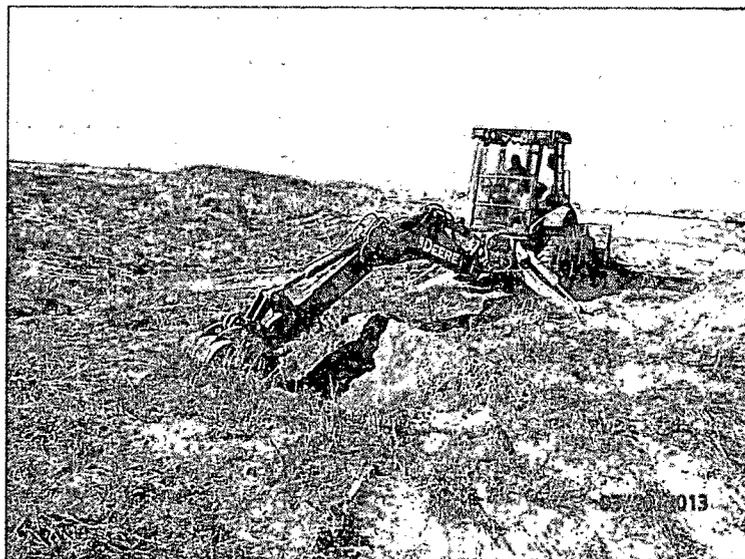
Initial release area, facing north

1/9/13



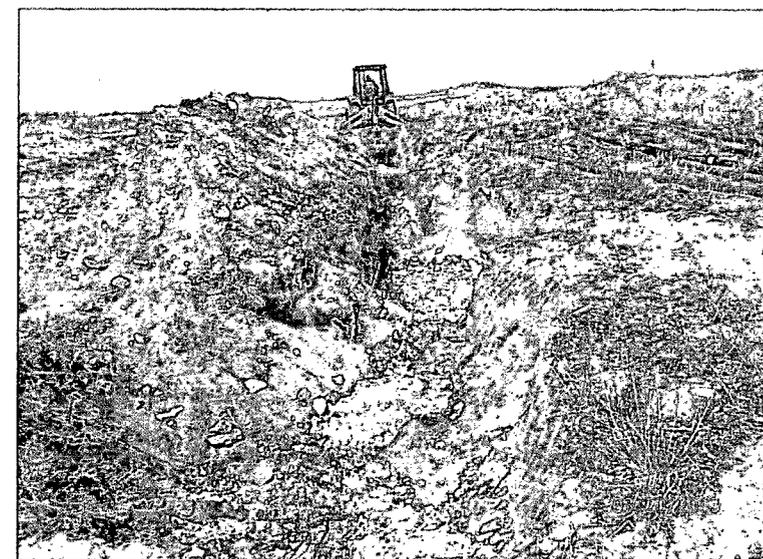
Initial release area, facing north

1/9/13



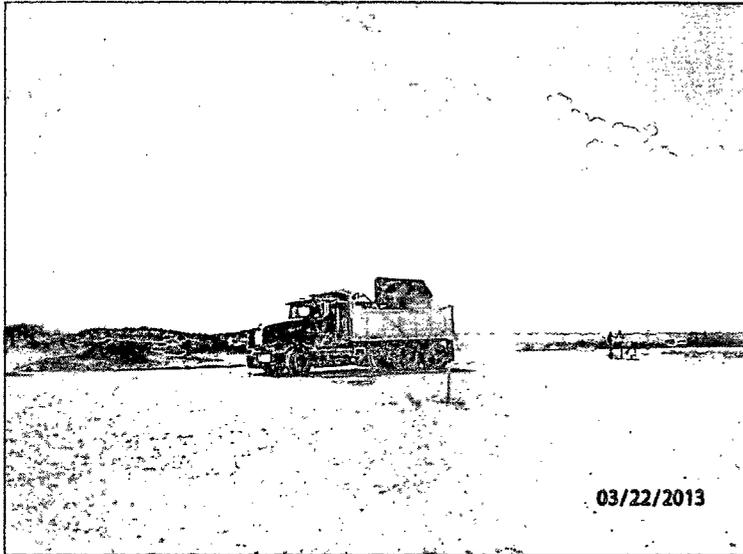
Excavating release area, facing west

3/20/13



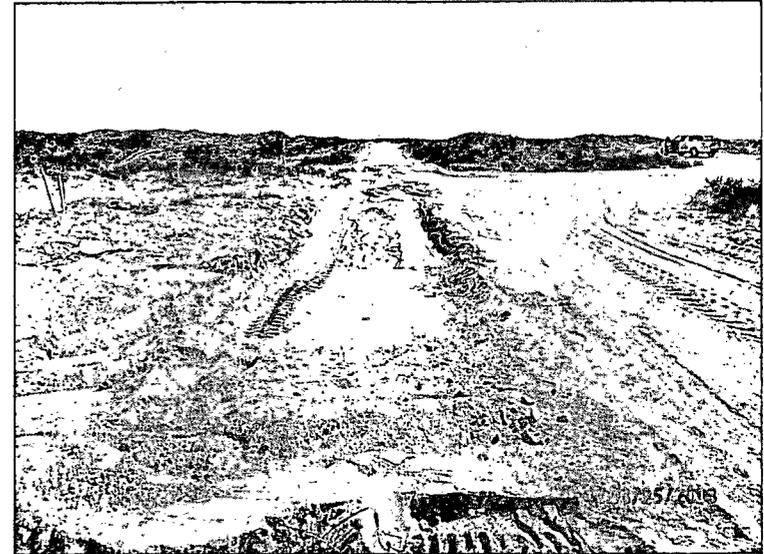
Excavating release area, facing north

3/20/13



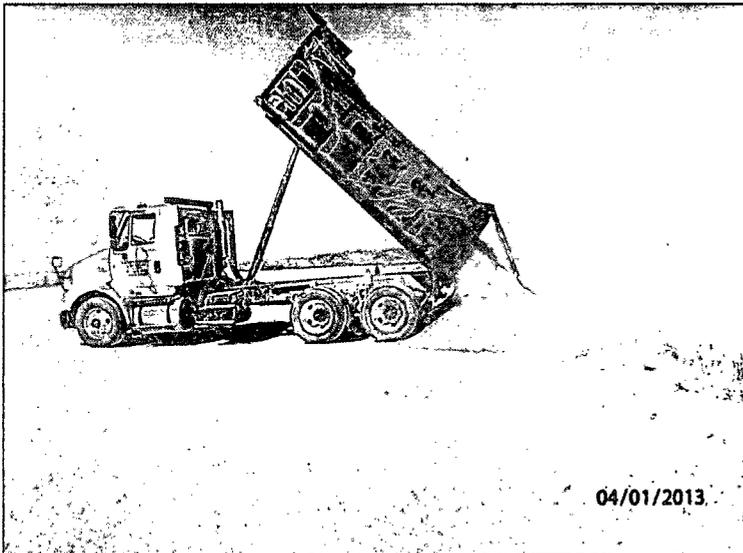
Exporting soil, facing south

3/22/13



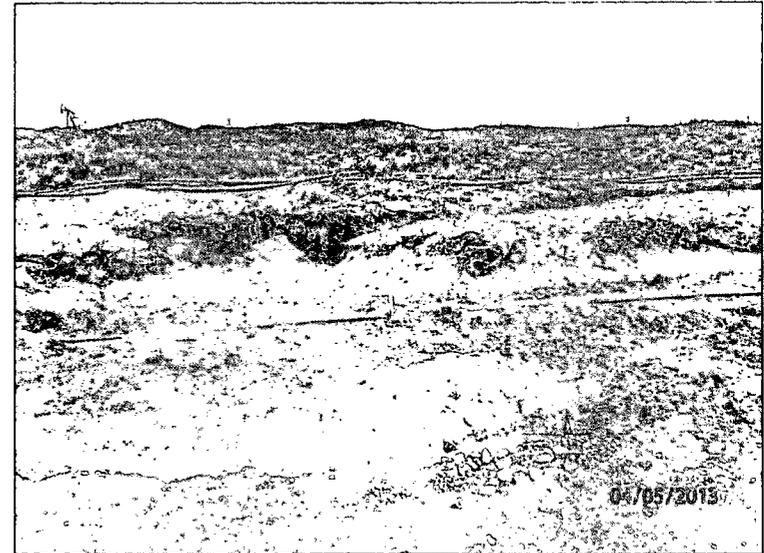
Final scrape in road, facing south

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



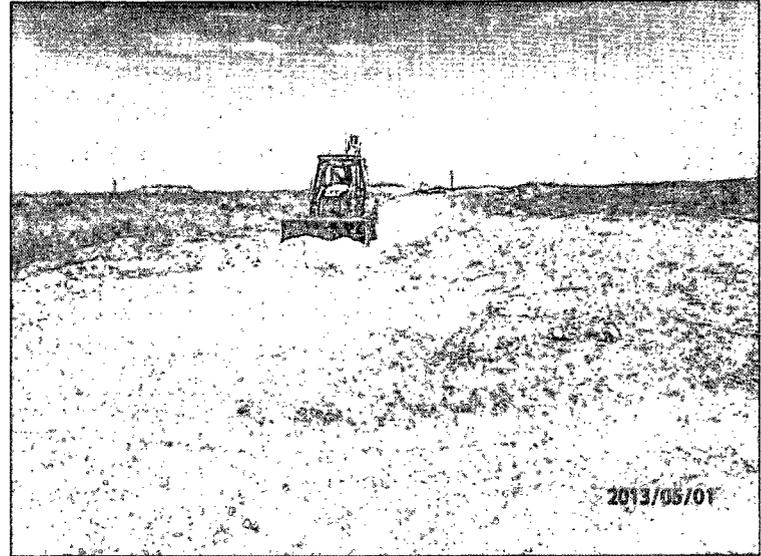
Final excavation, facing west

4/5/13



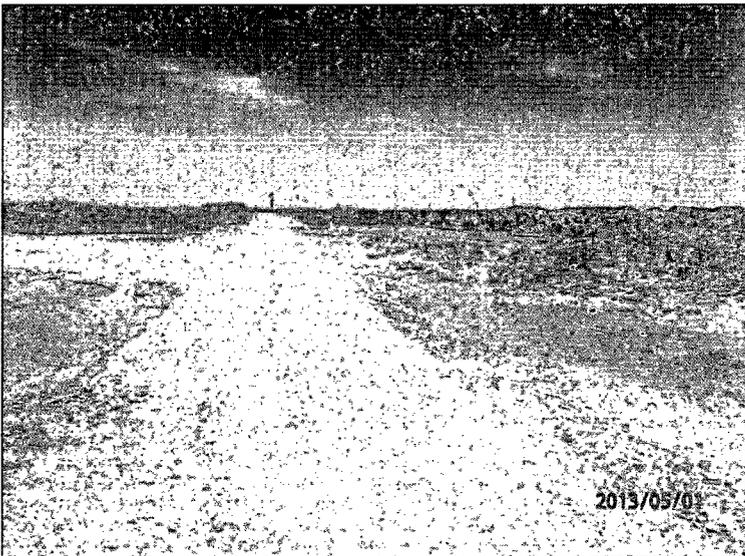
Backfilling the site, facing north

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



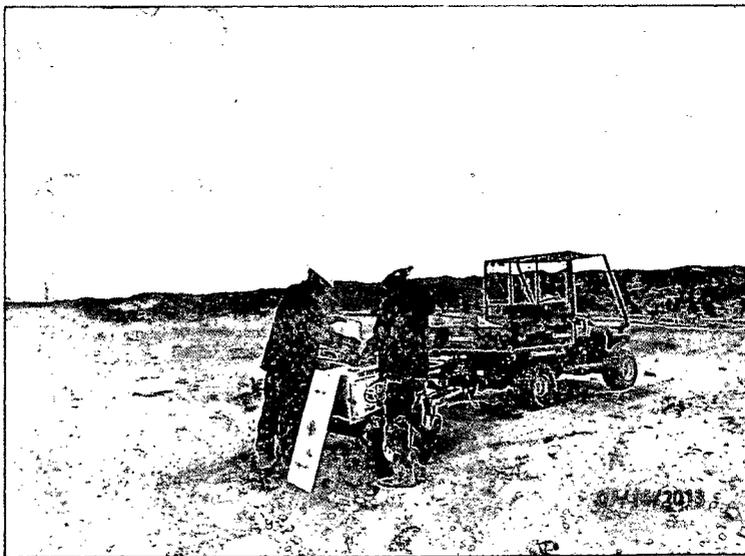
Final excavation, facing south

5/1/13



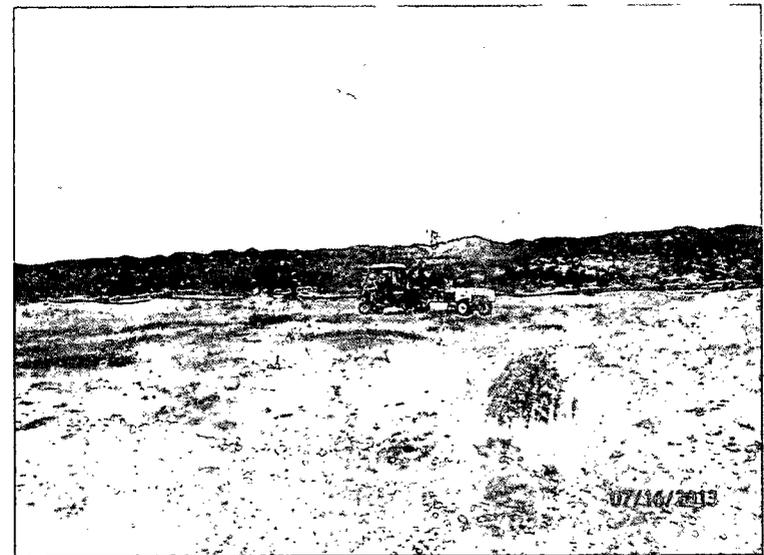
Final excavation, facing north

5/1/13



Seeding the site, facing northeast

7/16/13



Seeding the site, facing northeast

7/16/13

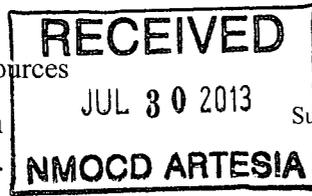
Appendix D

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
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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