

## **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 3<sup>rd</sup>, 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 8<sup>th</sup>, 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 10<sup>th</sup>, 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 9<sup>th</sup>, 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 8<sup>th</sup>, 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 11<sup>th</sup>, 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, recontoured, and seeded using the LPC seed mix.

Site excavation began on March 20<sup>th</sup>, 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 3<sup>rd</sup>, 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 16<sup>th</sup>, 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

Bruce Baker

**RECS** 

(575) 631-5157

cc. Mike Burton, BLM

#### Attachments:

Figure 1: Initial Sampling Data

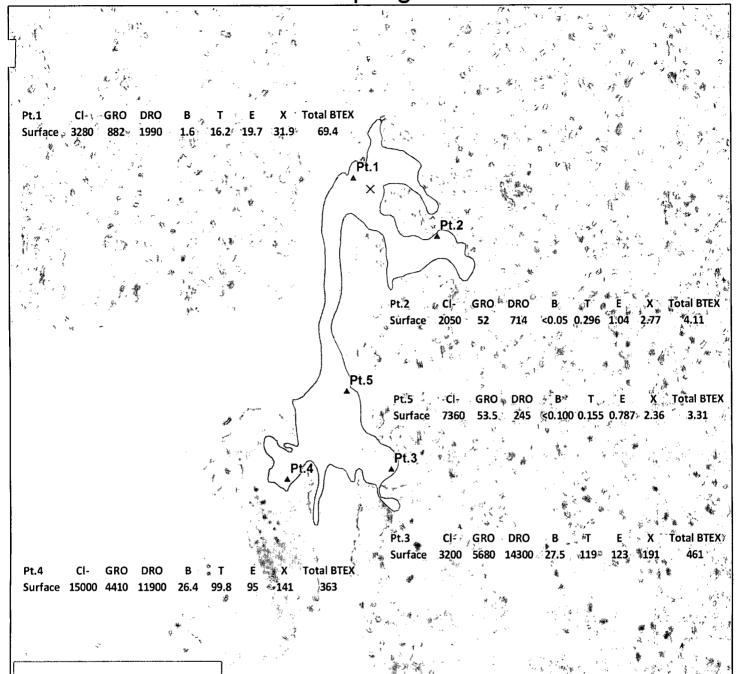
Figure 2: Final Sampling Data Appendix A: Initial Form C-141

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)

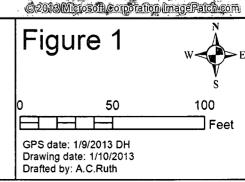
DGW = none

Landowner = BLM

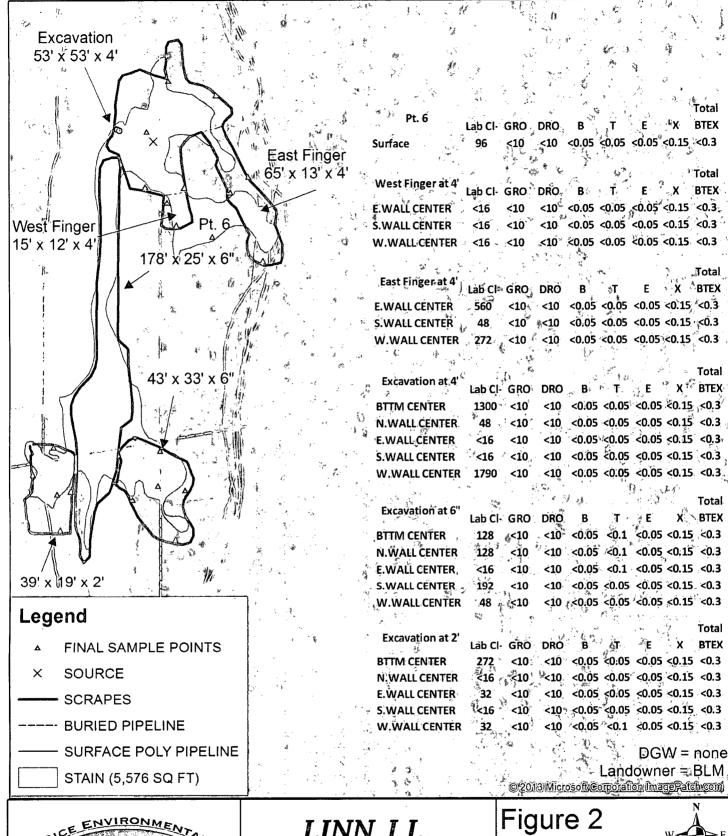


## LINN J.L. KEEL B #72 AD

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



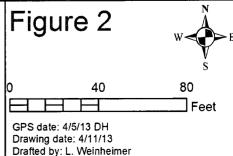
Final Sampling Data





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

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



Appendix A
Initial Form C-141

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 JAN 1 0 2013

RECEIVED

Form C-141 Revised October 10, 2003

Oil Conservation Division 1220 South St. Francis Dr.

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

Santa Fe, NM 87505

- 1 /			Kele	ase no	tilicat	ion and Co	rrective A	ction			
aMW	30175	53978				<b>OPERA</b>	FOR '	🛛 Initi	al Report		Final Report
Name of Co				9324	<del>-</del>	<del>-  </del>	e Hernandez		,		
Address: 21			NM 882	240			No.: 575-738-17	39			
Facility Nar	ne: J.L. Ke	el B #/2				Facility Typ	e: Injection				
Surface Ow	ner: Federa	al		Mir	eral Own	er: Federal		API No	.: 3001528	580	
				T	ОСАТ	ION OF REI	EASE .				
Unit Letter	Section 05	Township 17S	Range 31E	Feet from 223	n the N	orth/South Line South	Feet from the 760	East/West Line East	County	Eddy	
	<u> </u>			Latite	ıde: 32.8	6242 Longitud	2: -103.88504	I	<u> </u>		
Was Immedia By Whom? J Was a Water	lease: 2" Fil ate Notice C ose Hernand course Reac	berglass HP li Given? 	ne · Yes □	No 🔲	   NATU      	Volume of bbls Date and F 01/08/201: If YES, To M. Bratche	EASE Release: 35 bbls lour of Occurrence 9:30 n Whom?	Date and 01/09/20 erry Gregston-BLN 9:45am			
in. Could not	locate spill a Affected a	in dark. Four and Cleanup A	id Leak on Action Tak	. 1-9-13 at	0900. Lea   	k was caused by f	ailure in line at 2" 400' NE of J.L. K	est for header disc collar. Leel B #72. 2" Fibe imated 40 BBL tot	rglass HP Li	ine was l	
regulations all public health should their of or the environ	Il operators or the envir operations h nment. In a	are required to conment. The ave failed to a	o report an acceptance idequately ICD accep	id/or file co to of a C-1 investigat	ertain releated to the service of th	ase notifications a by the NMOCD mediate contamination	nd perform correct arked as "Final R on that pose a three the operator of	inderstand that pure tive actions for re- eport" does not releat to ground water responsibility for considerations.	leases which ieve the ope or, surface was compliance v	may end rator of l ater, hum with any o	langer iability ian health
S' nature:	Ser To	George V	J. T.		 	Approved by	District Supervis	SERVATION		<u>n</u> Like	Kanani:
Printed Name Title: Produc						.,	JAN 1721	Sign	ned By M	11/4	0
	ess: ieman 2013	dez@linnener P	hone: 575	 -942-9492	·	Conditions o Rēmed Guideline	fApproval: liation per O( s. SUBMIT RE DSAL NO LATI	CD Rule &	Attached Z	P-1	1505

Appendix B Initial Sampling Labs



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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



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	Analyze	d 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	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	121 9	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Kune



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

- - (575) 20

Fax To:

(575) 397-1471

Received:

01/15/2013

01/09/2013

Reported:

01/21/2013

Sampling Date: 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. 2 SURFACE (H300098-02)

BTEX 8021B	mg,	'kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPĎ	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 (PIE	180	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.3	% 63.6-15	4						

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\*=Accredited Analyte

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Celeg & Keena



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR

HOBBS NM, 88240

Fax To: (575) 397-1471

Received: Reported: 01/15/2013

01/21/2013

Project Name: Project Number: J. L. KEEL B #72 AD NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

01/09/2013

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

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

BTEX 8021B	mg,	/kg	Analyze	d 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 (PIL	130	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	373	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keene



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

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. 4 SURFACE (H300098-04)

BTEX 8021B	mg,	kg	Analyze	d 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 (PIL	115	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	308	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 5 of 8



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received: Reported: 01/15/2013

01/21/2013

Project Name: Project Number: J. L. KEEL B #72 AD

NONE GIVEN

Sampling Date: Sampling Type: 01/09/2013

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

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

BTEX 8021B	mg,	/kg	Analyze	d 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 (PIL	127	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	73.9	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



#### **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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	· Recs		445/F34F37	MONTH OF THE CALL		Bi	LL TO	i e pojite					ANAI	YSIS	RE	QUE	ST		
Project Manage	" Bruce Buker				Ρ.	O. 11:													
Address:					Co	inpany:	.,			ĺ	l								
City:	State:	Zip	:	A MINE OF THE OTHER PROPERTY.	A:	in:						1							
Phone #:	Fax #:				Αc	idress:										]			
Project #:	Project Owne		********		Ci	<u>'y:</u>													
Project Name:	5. L. Keel B # 79. 1.1).			and the second s	Şt	ate:	Zip:					ļ			ĺ				
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analyses: All claims include service. In no event shall C	nt Damayes. Cardinai's kability and dient's exclusive remedy for ny those for negligence and any other cause whatsoever shall be nrdhal be liable for incidental or consequental damages, includio	seemed g without	d walved It limitate	unless made in writing an on, business interruptions,	d rece loss o	ived by Cardinal : tuse, or loss of p	within 30 days aft rotts incurred by	er completion of t client, its subsidia	he poplica erica.	bie		- <del></del>		Australia esperante	<del></del>		<del></del>		
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# Appendix C Excavation Documentation

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



April 09, 2013

BRUCE BAKER

RICE ENVIRONMENTAL CONSULTING & SAFETY LLC

112 W. TAYLOR

HOBBS, NM 88240

RE: J. L. KEEL B #72 AD

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

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

Cardinal Laboratories is accreditated 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.

Celey D. Keens

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



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: Project Location:

NONE GIVEN

Sample Received By:

Jodi Henson

#### Sample ID: IMPORTED SOIL (H300842-01)

Chioride, 3144300CI-B	ing	/ kg	Analyze	u 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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remety for any claim arising, whether based in contract or cort, 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 or profits incurred by client, businessing interruptions, loss of or profits incurred by client, businessing interruptions, loss of the profits incurred by client for analyses. All claims, including without the profit of the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be limited to the performance of the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be limited to the performance of the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be limited to the performance of the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be liable for incidental or consequential damages, including those for negligence and any other cause whatsoever shall be limited to the performance or the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be limited to the performance or the amount paid to the performance or th

Celey D. Keine



#### **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 SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine



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#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Project Manage	r: Bruce Baker				P	.0.#	<u>;</u>															
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City:	State:	Zip:			A	ttn:										ľ						
Phone #:	Fax #:				Α	ddre	ss:					٠,				İ				].		
Project #:	Project Owner:				C	ity:									ļ ·			İ	·		·	
Project Name:	J.L. Kecl B#072	٠ .			s	tate:		:	Zip:						1				•			
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affiliates or successors arisi	erdinal be liable for incidental or consequental damages, including a region of or related to the performance of services hereunder by Ca	rdinal, regard	dess of whe							sons or otherwh	e.		٠		Ta : ::-		<del></del>					
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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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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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.

Celey & Keens

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



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To: (575) 397-1471

Received: Reported: 04/05/2013

04/10/2013

Project Name: Project Number: J. L. KEEL B #72 AD EXCAVATION @ 2FT

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

04/03/2013 Soil

. . .

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

#### Sample ID: BTTM CENTER (H300809-01)

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	104 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Kuna



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

Received:

04/05/2013

Sampling Date:

04/03/2013

Reported:

04/10/2013

Sampling Type:

Soil

Project Name:

J. L. KEEL B #72 AD **EXCAVATION @ 2FT**  Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	105 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS				<u> </u>	
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	% 65.2-14	0						· · · · · · · · ·
Surrogate: 1-Chlorooctadecane	103 9	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



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 @ 2FT

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### 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 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 65.2-14	0	,			· · · · · · · · · · · · · · · · · · ·		
Surrogate: 1-Chlorooctadecane	106 %	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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:

DTCV 00348

04/10/2013

Sampling Type:

Soil

Project Name:

J. L. KEEL B #72 AD

Sampling Condition:

Cool & Intact

Project Number:

EXCAVATION @ 2FT

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	/kg	Analyze	d 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 (PIL	106	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	106	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey & Keene



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 @ 2FT** 

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	109 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	83.15	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	63.6-15	4						

#### 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 warved 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. Kune



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine



#### **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

101 East Marland, Hobbs, NM 88240

(5/5) 393-2326 FAX (5/5) 3	73-2470		
Company Name: Rec5		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. Recl BH72		State: Zip:	
Project Location: EXCOVATION & 3"	٠,	Phone #:	
Sampler Name: Dakston Harris		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	3
	(C)OMP FRS ATER ER		
Lab I D Campila I D	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL	الدانا	
Lab I.D. Sample I.D.	ITAII BOE	ACID/BASE: 100 THER: 001 T	17/4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
H300909	# CON # CON WAST WAST	ACIDIBAS OTHER:	
1 RUM Center		V 4/3/13 11:00	
1 BHM Center 2 N. Waw Center 3 E. Waw Center 4 S. Waw Center	GIIV	1 4/3/13 11:05	
3 E. Wall Center	61 1	1 4/3/13 11:10	
4 5. Wall Center	G 1 V	1 4/3/13 17:15	V V V
5 W. Wall Center	GIV	1 4/3/13 11:20	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive			

Relinquished By:  Afth Havis	195/13 TIB: 15	Received By:  All Menson	Phone Result: ☐ Yes ☐ No Add'l Phone #:  Fax Result: ☐ Yes ☐ No Add'l Fax #:  REMARKS:
Relinquished By:	Date:	Réfeived By:	Bbakererice-ecs.com h condenerice-ecs.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED BY: Cool Intact (Initials) Ves Ves	Lwankeimere rice-ecs.com

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes 49.4575) 398-2326



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

(575) 397-1471 Fax To:

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	Analyze	d 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 (PIL	107 %	6 89.4-12	6			•			
Chloride, SM4500CI-B	mg/	kg	Analyze	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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Keine



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

Sampling Condition:

Cool & Intact

Project Name: Project Number: J. L. KEEL B #72 AD **EXCAVATION @ 6IN** 

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

#### 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 (PIL	107 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.3 9	63.6-15	4						

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Celey D. Kune



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	Analyze	d 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	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 9	63.6-15	4						

Cardinal Laboratories

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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:

04/03/2013

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	Analyze	d 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	112 %	6 89.4-12	6					-	
Chloride, SM4500Cl-B	mg/	kg	Analyze	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	Analyze	d 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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	105 %	63.6-15	4						

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Celey D. Keine



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	Analyze	d 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	110 %	% 89.4-12	6						
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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 %	63.6-15	4						

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\*=Accredited Analyte

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Celeg D. Keene



#### **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. Keine

10+1

## ARDINAL LABORATORIES

#### **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: Recs	BILL 70	ANALYSIS REQUEST
Project Manager: Bruce Baker	P.O. #:	
Address:	Company:	$  $ $  $ $ $
City: State: NM Zip:	Attn:	
Phone #: Fax #:	Address:	
Project #: Project Owner:	City:	\\ \  \  \  \  \  \  \  \  \  \  \  \  \
Project Name: J.L. Kal B#78	State: Zip: 0 Phone #: 0 Fax #: C	H 8015 M STEX Cations/Anions TDS
Project Location: EXCavation C 6"	Phone #:	H 8014  WAS TH  TDS  TDS
Sampler Name: Oakston Harris	Fax#:	
H 300810  Carlon Masterwater Soil oil	ii 7	TPH 80  Texas  Complete Cat  TD:
1 BHH Croker G/ V	1 4/3/13 12:30 /	V V
2 N. Wall Center 6-11 1	1 4/3/13 12:35 1	V V
3 E. Wall Center G1 V	V 4/3/13 12:40 V	V V
45. Wall Center G1 V	V 4/3/13 12:45 V	VV
5 W. Wall Center 61 V	V 4/3/23 12:50 V	
		<del>                                      </del>
	<del>                                      </del>	<del>                                     </del>
PLEASE NOTE: Liability and Damages, Cardina's liability and client's exclusive remedy for any claim satisfing whether based in contra	to that shall be firsted to the account said by the client for the	

PLEASE NOTE: Liability and Damages. Cardina's liability and client's exclusive remady for any daim arising whether based in contract or ton, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whateover shall be deemed waived unless made in writing and received by Cardinal within 30 days after complation of the applicable service. In no event shall Cardinal be fable for incidental or consequental damages, including without fination, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

anniales of squassors and any out of or related to the performance of		TODO OF RESIDENCE SECURITIES DESCRI	ia apoir any or the above stated to	SOLD OF OTHER PROPERTY.
Relinguished/By/	Part 5/13 Regeiv	ed By:		Phone Result: ☐ Yes ☑ No  Add'l Phone #:
1 / / / / / / / / / / / / / / / / / / /		$\alpha M M_{\alpha}$		Fax Result: ☐ Yes ☑ No Add"I Fax #:
1 pesta Hus	Tine . 412		UNOM.	REMARKS:
10.0	0.40 40	en gr	Well C	
Relinquished By:	Date: Receiv	ed By:		email results
100		•		
	Time:	•		Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
				hconder@rice-ecs.com; Lweinheimer@rice-ecs.com
Delivered By: (Circle One)	*	Sample Condition	СНЕСКЕТО ВУ:	modified ecs.com, Ewenmenner white-ecs.com
	, ,	Cool Intact	Miles	
Sampler - UPS - Bus - Other:			LON	
		No No	77.	
Sampler - UPS - Bus - Other:		☐ Yes ☐ Yes ☐ No ☐ No	4711	

#26

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



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:

P4/11/2013

Sampling Condition:

Cool & Intact

Project Number:

J. L. KEEL B #72 AD EXCAVATION @ 4FT

Sample Received By:

Jodi Henson

Project Location:

**NOT GIVEN** 

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 (PIL	111 %	6 89.4-12	6		N				
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



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: Project Number: J. L. KEEL B #72 AD **EXCAVATION @ 4FT** 

Project Location:

NOT GIVEN

Sampling Date: Sampling Type: 04/05/2013

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d 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	111 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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 **EXCAVATION @ 4FT**  Sampling Condition:

Cool & Intact

Project Number:

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

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

BTEX 8021B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2013	ND	1.65	82.6	2.00	1.39	
Toluene*	< 0.050	0.050	04/10/2013	ND	1.94	96.9	2.00	2.66	
Ethylbenzene*	< 0.050	0.050	04/10/2013	ND	2.18	109	2.00	3.63	
Total Xylenes*	< 0.150	0.150	04/10/2013	ND	6.48	108	6.00	4.22	
Total BTEX	<0.300	0.300	04/10/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIE	83.3 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	85.65	65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 %	6 63.6-15	4						

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Celeg D. Keene



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: 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 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 5	65.2-14	0						
Surrogate: 1-Chlorooctadecane	106 %	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Kuna



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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 **EXCAVATION @ 4FT**  Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: 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 (PIE	83.7	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	106 9	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine



#### **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 SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	Rec 5		•	•		Tight.		B	ILL	TO							ANA	LYSI	S RE	QUE	ST			
Project Manage	r. Bryce Baker					F	.O. #.			•		T	T				1	1		Τ				
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City:	State:	Zip:				Α	ttn:					]		.   •	Ċ	*		1	ĺ					1
Phone #:	Fax #:	٠,			<u> </u>	A	ddre	ss:				] .									ľ		ļ '	
Project #:	Project Owne	r;				c	ity:				į.	]	1					ļ	1		<b>,</b>	1		
Project Name:	J.L. Keel B # 072			<u>.</u>		s	tate:		Zip:								1	Ì		٠.		ļ	. '	
Project Location	n: Excavation e4'			·		Р	hone	#:						.				ł			<b>.</b>		1	
Sampler Name:	Daleston Harris						ax #:	٠.		٠.		1		-   .					1.			•		
FOR LAB USE ONLY			_	M/	TRIX		PRE	SERV	S/	AMPL	ING	7		-			l ·	i .						
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	d Damages. Cardinal's liability and client's exclusive remedy for																<u> </u>	J	٠		<u> </u>	<u> </u>		·····

affiliates or successors arising/out of or related to the performa	once of services hereunder by t	Cardinol, regardless of whether such claim is bas	ed upon any of the above stated i	easons or otherwise.	
Relinquished By:	015/13	Received By:		Phone Result:	
	1415112	10-1. 10		Fax Result: ☐ Yes ☐ No Add'l Fax #;	
1 With House	Time:	1/V/I. $1UO$	IN NOWA	REMARKS:	
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Relinquished By:	Date:	Received By:	· .:-	hiconderence ecsicom	
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Sampler - UPS - Bus - Other:	11 to 12 to	Yes Yes	1		
		□ No □ No			·

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (575) 393(2)326



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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.

Celeg D. Keine

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



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:

Sampling Type:

Soil

Project Name:

04/11/2013

Sampling Condition:

Cool & Intact

Project Number:

J. L. KEEL B #72 AD EAST FINGER EXC. @ 4FT

Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d By: AP		<b>8.1.</b>			
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	83.2	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102 9	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



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

Reported.

J. L. KEEL B #72 AD

Sampling Condition:

Cool & Intact

Project Name: 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 (PIL	84.8	% 89.4-12	б						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS				- <u>-</u>	
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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 9	63.6-15	4						

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 claims 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



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 EAST FINGER EXC. @ 4FT Sampling Condition:

Cool & Intact

Project Number: Project Location:

NOT GIVEN

Sample Received By:

Jodi Henson

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

BTEX 80218	mg/	kg	Analyze						
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	83.5	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	110 9	63.6-15	4						

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



# 108

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RCC 5	BILLTO		• • • • • • • • • • • • • • • • • • • •	ANALYSI	S REQUEST	
Project Manager: Bruce Baker	P.O. #:			T		
Address:	Company:	1				
City: State: Zip:	Attn:		1.			
Phone #: Fax #:	Address:		-			
Project #: Project Owner:	City:				1 1 1	
Project Name: 5.6 Kelb#72	State: Zip:		.]			
Project Location: East Finger Excavatione 4'	Phone #:	] . [		'   ·   ·		
Sampler Name: Dakston Harris	Fax #:					
FOR LAB USE ONLY MATR	PRESERV. SAMPLING	]				(
OMP OMP						
Lab I.D. Sample I.D. OR (C)(ONATE RS)		1	12			
Lab I.D. Sample I.D.	WASE	11/2				
Tab I.D. Sample I.D. (6)RAB OR (C)OO WASTEWATER WASTEWATER SOIL	SLUDGE OTHER: ACID/BASE ICE / COOL OTHER:	212	100		}	
	1	177				
725, Wall Center 611 V	1 4/5/13 1:00	1/1/		<del>-   -   -  </del>		
75. Wall Center 61 V	1 4/5/13 1:05	1/			<del></del>	<del>                                     </del>
3 10 100 C/M   61/1   1/1	1/0/13 1.0	1'-	+-+			
		1 1	1	+		
						<del></del>
			1			
				1		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in wr						
service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interm affiliates of successors arising out of or relates to the performance of services hereunder by Cardinal, regardless of whether suc	ons, loss of use, or loss of profits incurred by client, its subsid	aries,				

Religiquished By:	19.1011.5	Regeived By:	ed upon any or the above stated t	Phone Result: Fax Result:	☐ Yes ☐ Yes	□ No	Add'l Phone #: Add'l Fax #:		
John Hong	Time : 90	you se	won	REMARKS:	en ma	v-6051	Corm		
Reifinquished By:	Date:	Received By:		h. Cono	re rice	-ec5 · (	-0m		
Delivered By (Circle One)	Time:	Sample Condition	СНБСИЕЙ ВҮ:	Livein	heimen	erice	-ecs.com	v v	•
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Cool Intact  Large Large Sample Condition	(Indiana)				-		
Samplet - OFS - Bus - Ottlet.	-	No No No				<u> </u>			· .

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



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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

Cardinal Laboratories is accreditated 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.

Celeg D. Keine

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



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: E. WALL CENTER (H300830-01)

BTEX 8021B	mg/	kg	Analyze	d 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 1.94	82.6	2.00	1.39	
Toluene*	<0.050	0.050	04/10/2013	ND		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	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	% 63.6-15	4						

\*=Accredited Analyte Cardinal Laboratories

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Celeg D. Kuna



RICE ENVIRONMENTAL CONSULTING & SAFETY BRUCE BAKER 112 W. TAYLOR HOBBS NM, 88240

Fax To:

(575) 397-1471

Received:

04/05/2013

Sampling Date: Sampling Type: 04/05/2013

Reported:

04/11/2013

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	Analyze	d By: AP			<u> </u>		
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	83.8 9	% 89.4-12	16		,				
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	95.2 9	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	1169	63.6-15	i4						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keens



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: W. WALL CENTER (H300830-03)

BTEX 8021B	mg/	kg	Analyze	d 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	50 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	84.0 9	% 89.4-12	6						
Chloride, SM4500CI-B	de, 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	93.2	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	1149	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



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	Analyze	d 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	85.5 %	% 89.4-12	6						
Chloride, SM4500CI-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 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 %	63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keine



#### **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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Celeg D. Keine

# ARDINAL LABORATORIES

# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

TAX (323)013-7020	ANALYSIS PESIFOR
	ANALYSIS REQUEST
P.O. #:	
Company:	_
Attn:	
Address:	1         5
City:	
State: Zip:	빛(전) × [단] 원(기
Phone #:	Chlorides PH 8015 M BTEX Texas TPH Texas TPH TDS
Fax #:	
PRESERV. SAMPLING	
SLUDGE OTHER: ACIDIABASE: ICE/COOL OTHER:	Complete
1 1 4/6/13 1:10	
1 4/6/13 1:15	VVV
V 4/5/23 1:20	
1 4/5/13 1:25	
	<del></del>
ract or tort, shall be limited to the amount paid by the client t	for the
	P.O. #:  Company:  Attn:  Address:  City:  State: Zip:  Phone #:  Fax #:  PRESERV SAMPLING  DATE TIME  1000 4 4 6 3 1:00  4 4 5 3 1:00  4 4 5 3 1:05

PLEASE NOTE: Liabidity and Damages. Cardinal's liabidity and client's exclusive remedy for any claim artising 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 whether divises made in writing and received by Cerdinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequented damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successing artisting out of or refused to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

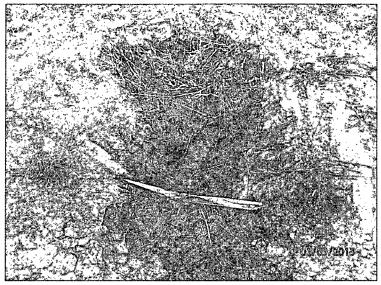
Relinquished By:	Date 19 12 Received By:	Phone Result: ☐ Yes ☑ No Add'l Phone #:  Fax Result: ☐ Yes ☑ No Add'l Fax #:
1 phyto 1200	14:20 Chow Henson	REMARKS:
Relinquished By:	Date: Received By:	email results
	Time:	7dan Orienta and Blades Orienta
Delivered By: (Circle One)	Sample Condition CHECKED BY: Cool Intact (ditals)	Zconder@rice-ecs.com; Bbaker@rice-ecs.com;
Sampler - UPS - Bus - Other:	Cool intact (ditals)  Li Yes Yes	hconder@rice-ecs.com; Lweinheimer@rice-ecs.com

<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



# Linn J.L.Keel B #72 AD

Unit Letter I, Section 5, T17S, R31E



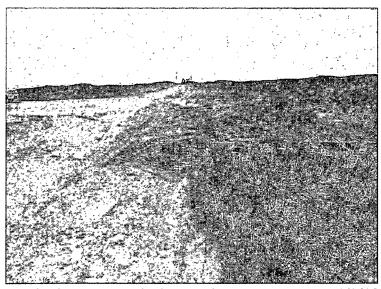
Release source, facing east

1/9/13



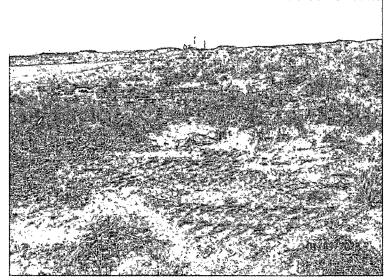
Initial release area, facing south

1/9/13



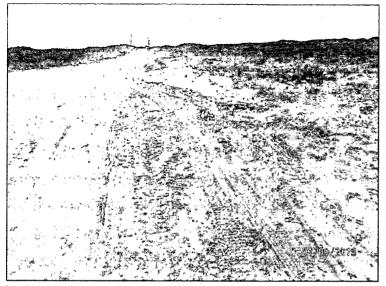
Initial release area, facing north

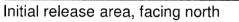
1/9/13



Initial release area, facing north

1/9/13





1/9/13



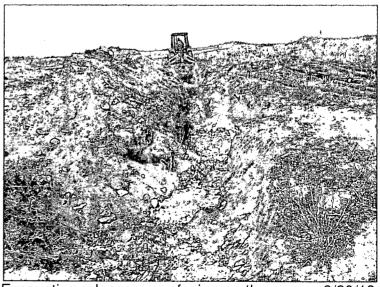
Initial release area, facing north

1/9/13



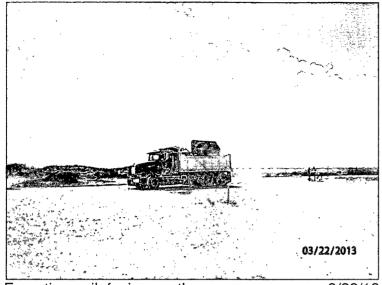
Excavating release area, facing west

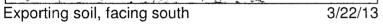
3/20/13

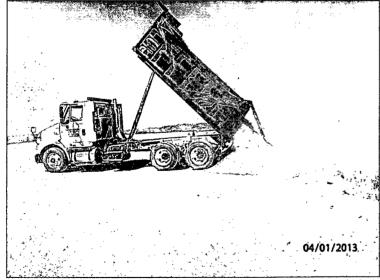


Excavating release area, facing north

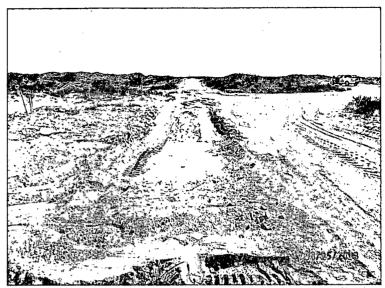
3/20/13



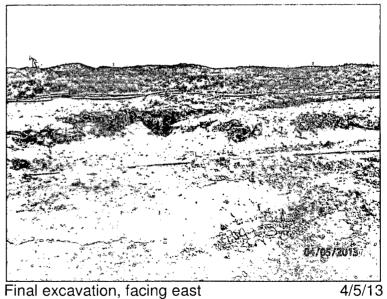




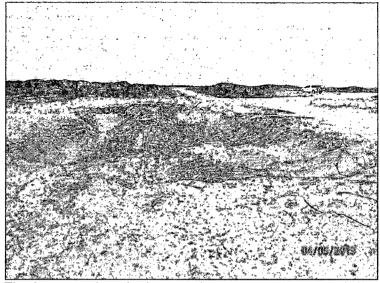
4/1/13 Importing soil, facing west

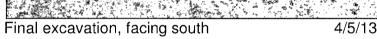


Final scrape in road, facing south



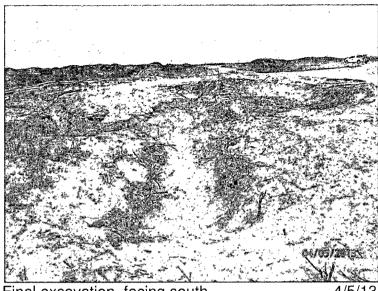
Final excavation, facing east







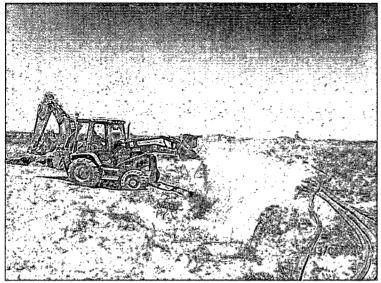
Final excavation, facing west 4/5/13

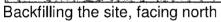


Final excavation, facing south



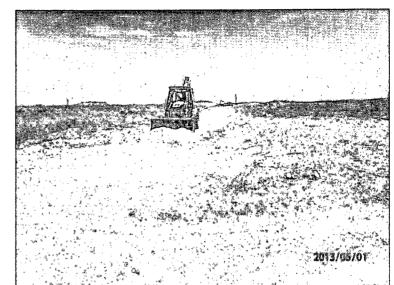
Final excavation, facing west 4/5/13



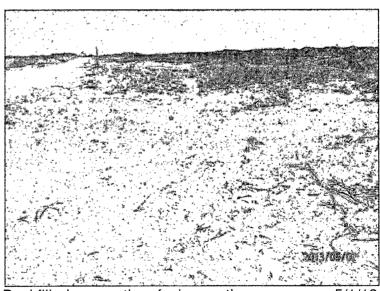




Final site photo, facing north

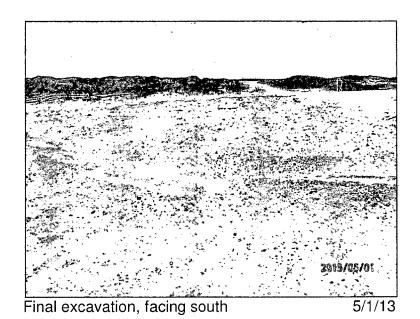


Backfilling the road with caliche, facing north 5/1/13



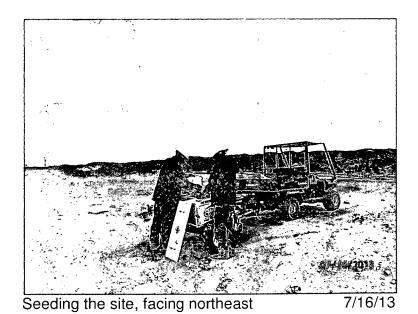
Backfilled excavation, facing north

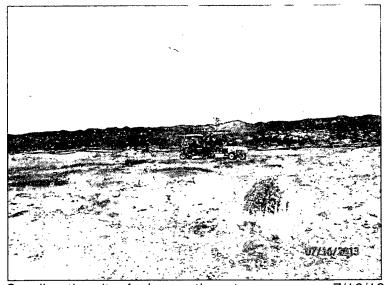
5/1/13





Final excavation, facing north 5/1/13





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 Resources

Energy Minerals and Natural Resources

Santa Fe, NM 87505

JUL **3 0** 2013

Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate

Oil Conservation Division
1220 South St. Francis Dr.

NMOCD ARTESIA

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

Release Notification and Corrective Action														
				OPERAT	Initia	ıl Report	$\boxtimes$	Final Report						
Name of Co				N.C. 00040		Contact Gary Wink Telephone No. (575) 738-1739								
Address 21 Facility Nar			Hobbs, N	M 88240		Telephone No. (575) 738-1739  Facility Type Injection								
Surface Ow				Mineral O					Lease N	Io. 30015	28580	· ·		
Surface Ow	HEI BLIVI			· · · · · · · · · · · · · · · · · · ·					Lease I	10. 50015	28380			
Unit Letter	Section	Township	LOCA Feet from the		ON OF RELEASE  ch/South Line   Feet from the   East/			st/West Line   County						
		-	Range							•				
I	1 5 17S 31E 2230' F						760'	F	EL	Eddy				
Latitude 32.86242 Longitude -103.88504														
				NAT	URE	OF RELI								
Type of Rele	ase Pro	duced Water/	Oil			Volume of bbls	Release 35 bbls	/5	Volume F	Recovered	0/0			
Source of Re	lease 2" Fi	berglass HP l	ine			ľ	lour of Occurrenc	e		Hour of Dis	covery			
Was Immedia	ate Notice C	Given?				1/8/2013 If YES, To			1/9/2013	9:00 am				
			Yes [	No 🗌 Not Re	quired	Mike Brate	ther, NMOCD; To	erry Gre	gston, BLN	1				
By Whom? . Was a Water					<del></del>		lour 1/9/13 9:45 blume Impacting t		TOOLINGO.					
was a water	course Reac		Yes 🛚	No		i i i i i i i i i i i i i i i i i i i	nume impacting t	ne wate	icourse.			·		
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	*										
Describe Cau	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											ressure. The		
line was shut	in but the l	eak could not	be located	l in the dark. The										
Describe Are				were affected.										
On January 9th	, 2013, RECS	S personnel wer	e on site to	initialize work on th										
March 8th, 201	<ol><li>BLM appr</li></ol>	roved this CAP	on March	alysis of chlorides, G	ollowing	conditions:		i, Linn su	omitted a C	orrective Act	ion Pian	(CAP) on		
2. 7	The site shoul	d be backfilled	with native	sidewalls would need soils matching the s	surroundi	ng terrain, re-c	ontoured, and seede							
Site excavation	n began on M	arch 20 <sup>th</sup> , 2013	. The lease	road was scraped do	own six ir	nches. The rel	ease areas in the not	rth pastur	e was excav	ated down for	our feet a	and the release		
Representative	samples from	n the pasture a	eas were ta	ken to a commercial	laborato	ry for analysis	of chlorides, TPH a	and BTEX	<ol> <li>A surface</li> </ol>	sample was	taken at	Pt. 6 and taken		
detect. BLM v	erbally appro	oved the backfi	lling of the	PH and BTEX. The site and the site was	backfille	d with clean, i	mported soil. A tota	al of 396	yards of cal	iche and top s	soil was	imported to		
				soil was taken to a co The site was backfil										
mix.  I hereby certi	ify that the i	nformation g	iven above	e is true and compl	lete to th	e hest of my	knowledge and u	ınderstar	d that purs	cuant to NM	IOCD r	ules and		
regulations a	ll operators	are required t	o report a	nd/or file certain re	elease no	otifications a	nd perform correc	ctive acti	ons for rel	eases which	may e	ndanger		
				ce of a C-141 repo investigate and re										
or the environ	nment. In a	ddition, NMC	OCD accep	otance of a C-141										
federal, state, or local laws and/or regulations.  OIL CONSERVATION DIVISION														
Signature:	Hary	W. W.	nk				<u> </u>	<u>DEIC (</u>		D1 1 1010	<u> </u>			
Printed Name	e: Gary W	'ink			A	Approved by	District Supervis	or:						
Title: Produc	ction Forem	an .				Approval Da			Expiration	Date:				
			<del></del>	·				.   .	Pyhiration	Date.				
E-mail Addre		(a)linnenergy	.com			Conditions of	Approval:			Attached	i 🔲	ĺ		
Date: 7/19/13 Phone: (575) 738-1739														

<sup>\*</sup> Attach Additional Sheets If Necessary