

1R - 426-279

WORKPLANS

Date:

3-19-12

Rice Environmental Consulting & Safety

P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

RECEIVED OOD

2012 MAR 20 A 10: 56

CERTIFIED MAIL

RETURN RECEIPT NO. 7011 2000 0002 0285 5094

March 19th, 2012

Mr. Edward Hansen

New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

**RE: Report of Further Investigation
Rice Operating Company – BD SWD System
BD jct. C-23-1 (1R426-279): UL/C sec. 23 T22S R37E**

Mr. Hansen:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site in the BD Salt Water Disposal (SWD) system. ROC is the service provider (agent) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background and Previous Work

The site is located approximately 4 miles southeast of Eunice, New Mexico at UL/C sec. 23 T22S R37E as shown on the Site Location Map (Figure 1). NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 59 +/- feet.

In 2010, ROC initiated work on the former BD C-23-1 junction box. The site was delineated using a backhoe to form a 35 ft x 5 ft x 12 ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. From the excavation, the four-wall composite, the bottom composite and the backfill were taken to a commercial laboratory for analysis. Laboratory tests of the four-wall composite showed a chloride reading of 784 mg/kg and gasoline range organics (GRO) and diesel range organics (DRO) readings of non-detect. The bottom composite showed a chloride laboratory reading of 2,200 mg/kg and GRO and DRO readings of non-detect. The soil was blended on site and backfilled to six feet below ground surface (bgs). Laboratory analysis of the blended backfill showed a chloride reading of 1,310 mg/kg and GRO and DRO readings of non-detect. At 6-5 ft bgs, a one foot thick clay layer was installed to inhibit the downward movement of chlorides. A clay compaction test was performed on

March 23rd, 2010. The remaining backfill was taken to an NMOCD approved facility for disposal. Clean imported soil was used to backfill the site to ground surface.

The area was contoured to the surrounding landscape, seeded, and an identification plate was placed on the surface of the site to mark its location for future environmental considerations. NMOCD was notified of potential groundwater impact on August 4th, 2010 and a junction box disclosure report was submitted to NMOCD with all the 2010 junction box closures and disclosures.

As part of the Investigation and Characterization Plan approved by NMOCD on July 20th, 2011, one soil bore was advanced through the former junction box site on September 2nd, 2011 (Figure 2). RECS personnel field tested the soil for chlorides and screened in the field with a photo-ionization detector (PID) for hydrocarbons. Representative samples from the bore were taken to a commercial laboratory for confirmation of field numbers (Appendix A). In SB-1, the laboratory chloride readings showed 1,250 mg/kg at 20 ft bgs, 1,630 mg/kg at 50 ft bgs and 4,800 mg/kg at 55 ft bgs.

On September 15th, 2011, an ICP Report was submitted to NMOCD that was subsequently approved on September 22nd, 2011. The report recommended that ROC continue to delineate the soils surrounding the former junction box site and the groundwater affected by the site by installing a near-source monitor well. On February 1st and 2nd, 2012, six additional soil bores (SB-2 through SB-7) were installed at the site (Figure 2). Representative samples from the bores were taken to a commercial laboratory for confirmation of field numbers (Appendix A). SB-2 returned laboratory chloride values of 960 mg/kg at 10 ft bgs, which decreased to 112 mg/kg at 40 ft bgs. SB-3 returned laboratory chloride values of 3,760 mg/kg at 20 ft bgs, which decrease to 1,730 mg/kg at 55 ft bgs. SB-4 returned laboratory chloride values of 1,540 mg/kg at 20 ft bgs, 1,580 mg/kg at 50 ft bgs, and 3,120 mg/kg at 55 ft bgs. SB-5 returned laboratory chloride values of 3,360 mg/kg at 45 ft bgs and 3,760 mg/kg at 55 ft bgs. SB-6 returned laboratory chloride values of 4,080 mg/kg, which decreased to 3,240 mg/kg at 55 ft bgs. SB-7 returned laboratory chloride values of 3,360 mg/kg at 10 ft bgs and 3,960 mg/kg at 55 ft bgs. GRO and DRO values were non detect in soil bores except for SB-6 which had DRO values of 28.9 mg/kg at 45 ft bgs and 13 mg/kg at 55 ft bgs.

Based on the delineation of the soils conducted at the site, RECS recommends that ROC continue to delineate the soils surrounding the former junction box and install a near-source monitor well to determine groundwater quality below the site. Additional monitor wells may be installed as necessary to fully delineate groundwater quality. After delineation of the soils surrounding the junction box and groundwater beneath the site, ROC will submit a report with recommendations for a path forward.

RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-9174 or me if you have any questions or wish to discuss the site.

Sincerely,

A handwritten signature in black ink, appearing to read 'L.W.' followed by a stylized flourish.

Lara Weinheimer
Project Scientist
RECS
(575) 441-0431

Attachments:

- Figure 1 – Site Map
- Figure 2 – Soil Bore Installation Map
- Appendix A – Soil Bore Installation Logs and Labs



Figures

RICE Environmental Consulting and Safety (RECS)
P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Site Map



BD jct. C-23-1

LEGALS: UL/C sec. 23
T22S R37E

NMOCD Case #: 1R426-279

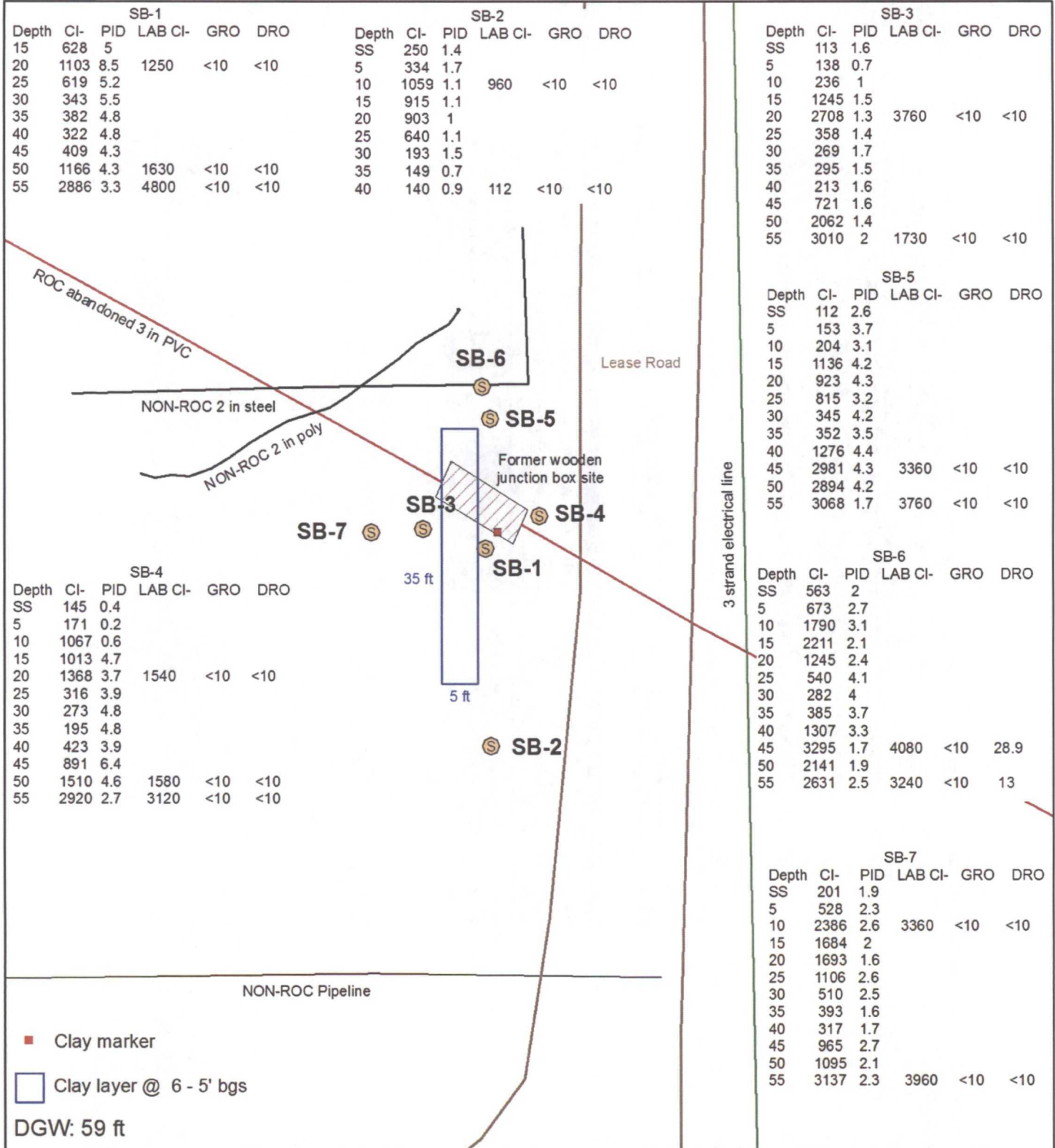
Figure 1



0 1,700 3,400 6,800
Feet

Drawing date: 5-3-11
Drafted by: L. Weinheimer

Soil Bore Installation



BD jct. C-23-1

LEGALS: UL/C sec. 23
T22S R37E

NMOCD Case #: 1R426-279

Figure 2



0 5 10 20
Feet

Drawing date: 9-8-11
Drafted by: L. Weinheimer



Appendix A

Soil Bore Installation Logs and Labs


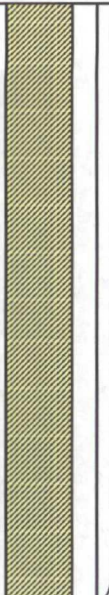
RICE Environmental Consulting and Safety (RECS)

P.O. Box 5630 Hobbs, NM 88241
Phone 575.393.4411 Fax 575.393.0293

Logger:	Kyle Norman			
Driller:	Harrison & Cooper, Inc.			
Drilling Method:	Air rotary		Project Name:	Well ID:
Start Date:	9/2/2011		BD jct. C-23-1	SB-1
End Date:	9/2/2011	Project Consultant: RECS		Location: UL/C sec. 23 T22S R37E
Comments: All samples were taken from cuttings. The soil bore was located 3 ft SW of the clay marker. DRAFTED BY: L. Weinheimer TD = 55 ft GW = 59 ft			Lat: 32°22'51.724"N County: Lea Long: 103°8'10.384"W State: NM	

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
SS						
5 ft				Red Sand		
10 ft						
15 ft	628		5			
				Tan Sand		
20 ft	1103	Cl-1250	8.5			
		GRO <10				
		DRO <10				
25 ft	619		5.2	Red Sand With Some Caliche		
30 ft	343		5.5			
35 ft	382		4.8	Tan Fine Sand		
40 ft	322		4.8			

bentonite seal


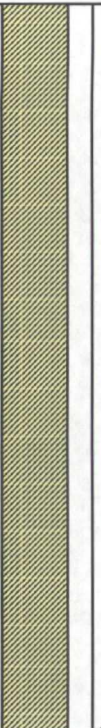



Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Red Sandy Clay		
45 ft	409		4.3			
50 ft	1166	CI- 1630	4.3			
		GRO <10				
		DRO <10				
55 ft	2886	CI- 4800	3.3			
		GRO <10				
		DRO <10				

Logger:	Kyle Norman					
Driller:	Harrison & Cooper, Inc.					
Drilling Method:	Air rotary					
Start Date:	2/1/2012					
End Date:	2/1/2012			Project Name: BD jct. C-23-1 Well ID: SB-2 Project Consultant: RECS		
Comments: Located 29 ft south of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 40 ft GW = 59 ft			Location: UL/F sec. 23 T22S R37E Lat: 32°22'51.456"N County: Lea Long: 103°8'10.378"W State: NM			
Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
SS	250		1.4	Brown Sand		
5 ft	334		1.7			
				Tan Sand		
10 ft	1059	CI-960 GRO <10 DRO <10	1.1			
				Red/Tan Sand		bentonite seal
15 ft	915		1.1			
20 ft	903		1.0			
25 ft	640		1.1			
				Tan Sand		
30 ft	193		1.5			
35 ft	149		0.7			
40 ft	140	CI-112 GRO <10 DRO <10	0.9			

Logger:	Kyle Norman		
Driller:	Harrison & Cooper, Inc.		
Drilling Method:	Air rotary		
Start Date:	2/1/2012		
End Date:	2/1/2012		
Comments: Located 10 ft west of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 55 ft GW = 59 ft		Project Name: BD jct. C-23-1 Well ID: SB-3 Project Consultant: RECS Location: UL/C sec. 23 T22S R37E Lat: 32°22'51.751"N County: Lea Long: 103°8'10.488"W State: NM	





Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
SS	113		1.6			
				Brown Sand		
5 ft	138		0.7			
10 ft	236		1.0			
				Red Sand		
15 ft	1245		1.5			
20 ft	2708	CI-3760	1.3			
		GRO <10				
		DRO <10				
25 ft	358		1.4			
				Tan Sand		
30 ft	269		1.7			
35 ft	295		1.5			

bentonite seal

Depth (feet)	Chloride field tests	LAB	PID	Description		Lithology		Well Construction		
				Tan Sand						
40 ft	213		1.6							
				Red Sand						
45 ft	721		1.6							
50 ft	2062		1.4							
55 ft	3010	CI-1730	2.0							
		GRO <10								
		DRO <10								

Logger:	Kyle Norman			
Driller:	Harrison & Cooper, Inc.			
Drilling Method:	Air rotary		Project Name:	Well ID:
Start Date:	2/1/2012		BD jct. C-23-1	SB-4
End Date:	2/1/2012	Project Consultant: RECS		Location: UL/C sec. 23 T22S R37E
Comments: Located 6 ft east of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 55 ft GW = 59 ft		Lat: 32°22'51.766"N County: Lea Long: 103°8'10.297"W State: NM		





Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Brown Sand		
SS	145		0.4			
5 ft	171		0.2			
				Tan Sand		<div style="border-left: 1px solid black; border-right: 1px solid black; height: 100%; position: relative;"> <div style="position: absolute; bottom: 0; width: 100%; text-align: center;">bentonite seal</div> </div>
10 ft	1067		0.6			
15 ft	1013		4.7			
20 ft	1368	CI-1540	3.7			
		GRO <10				
		DRO <10				
25 ft	316		3.9			
30 ft	273		4.8			
35 ft	195		4.8			

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Tan Sand		
40 ft	423		3.9			
				Red Sand		
45 ft	891		6.4			
50 ft	1510	Cl- 1580	4.6			
		GRO <10				
		DRO <10				
55 ft	2920	Cl- 3120	2.7			
		GRO <10				
		DRO <10				

Logger:	Kyle Norman			
Driller:	Harrison & Cooper, Inc.			
Drilling Method:	Air rotary		Project Name:	Well ID:
Start Date:	2/1/2012		BD jct. C-23-1	SB-5
End Date:	2/1/2012		Project Consultant: RECS	
Comments: Located 15 ft north of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 55 ft GW = 59 ft			Location: UL/C sec. 23 T22S R37E Lat: 32°22'51.898"N County: Lea Long: 103°8'10.375"W State: NM	

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
SS	112		2.6	Brown Sand		
5 ft	153		3.7			
				Tan Sand		
10 ft	204		3.1			
				Red Sand		
15 ft	1136		4.2			
20 ft	923		4.3			
25 ft	815		3.2			
30 ft	345		4.2			
35 ft	352		3.5			


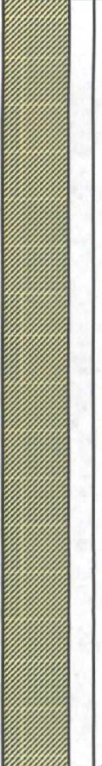
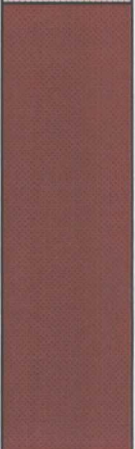
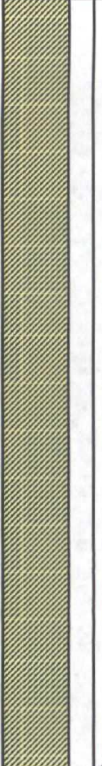
bentonite seal

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Tan Sand		
40 ft	1276		4.4			
				Red Sand		
45 ft	2981	Cl- 3360	4.3			
		GRO <10				
		DRO <10				
50 ft	2894		4.2			
55 ft	3068	Cl- 3760	1.7			
		GRO <10				
		DRO <10				

Logger:	Kyle Norman			
Driller:	Harrison & Cooper, Inc.			
Drilling Method:	Air rotary			
Start Date:	2/2/2012			
End Date:	2/2/2012			
Comments: Located 20 ft north of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 55 ft GW = 59 ft		Project Name: BD jct. C-23-1 Well ID: SB-6 Project Consultant: RECS Location: UL/C sec. 23 T22S R37E Lat: 32°22'51.941"N County: Lea Long: 103°8'10.388"W State: NM		

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Tan Sand		
SS	563		2			
				Brown Sand		
5 ft	673		2.7			
				Tan Sand		
10 ft	1790		3.1			
15 ft	2211		2.1			
20 ft	1245		2.4			
25 ft	540		4.1			
30 ft	282		4			
35 ft	385		3.7			




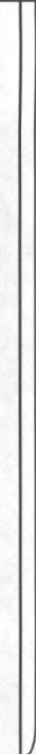

bentonite
seal

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
				Tan Sand		
40 ft	1307		3.3			
45 ft	3295	CI-4080	1.7	Red Sand		
		GRO <10				
		DRO 28.9				
50 ft	2141		1.9			
55 ft	2631	CI-3240	2.5			
		GRO <10				
		DRO 13.0				

Logger:	Kyle Norman			
Driller:	Harrison & Cooper, Inc.			
Drilling Method:	Air rotary		Project Name:	Well ID:
Start Date:	2/2/2012		BD jct. C-23-1	SB-7
End Date:	2/2/2012		Project Consultant: RECS	
Comments: Located 17 ft west of the former junction box site. All samples were from cuttings. DRAFTED BY: L. Weinheimer TD = 55 ft GW = 59 ft			Location: UL/C sec. 23 T22S R37E Lat: 32°22'51.941"N County: Lea Long: 103°8'10.388"W State: NM	

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
SS	201		1.9	Brown Sand		
5 ft	528		2.3			
10 ft	2386	CI-3360	2.6	Tan Sand		
		GRO <10				
		DRO <10				
15 ft	1684		2			
20 ft	1693		1.6			
25 ft	1106		2.6	Red Sand		
30 ft	510		2.5			
35 ft	393		1.6	Tan Sand		

bentonite
seal

Depth (feet)	Chloride field tests	LAB	PID	Description		Lithology		Well Construction		
				Tan Sand						
40 ft	317		1.7							
				Red Sand						
45 ft	965		2.7							
50 ft	1095		2.1							
55 ft	3137	Cl- 3960	2.3							
		GRO <10								
		DRO <10								

September 08, 2011

Hack Conder
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: BD C-23-1 JCT (22/37)

Enclosed are the results of analyses for samples received by the laboratory on 09/02/11 15:53.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

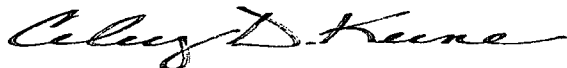
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (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 Operating Company
Hack Conder
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received:	09/02/2011	Sampling Date:	09/02/2011
Reported:	09/08/2011	Sampling Type:	Soil
Project Name:	BD C-23-1 JCT (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SOIL BORE #1 @ 20' (H101880-01)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	09/06/2011	ND	416	104	400	3.77	
TPH 8015M			mg/kg		Analyzed By: ab				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	

Surrogate: 1-Chlorooctane 105 % 55.5-154

Surrogate: 1-Chlorooctadecane 108 % 57.6-158

Sample ID: SOIL BORE #1 @ 50' (H101880-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	09/06/2011	ND	416	104	400	3.77	
TPH 8015M			mg/kg		Analyzed By: ab				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	160	79.9	200	0.555	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	157	78.3	200	2.57	

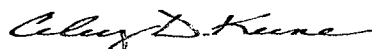
Surrogate: 1-Chlorooctane 101 % 55.5-154

Surrogate: 1-Chlorooctadecane 103 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Rice Operating Company
Hack Conder
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received: 09/02/2011
Reported: 09/08/2011
Project Name: BD C-23-1 JCT (22/37)
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/02/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

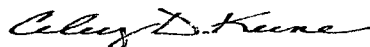
Sample ID: SOIL BORE #1 @ 55' (H101880-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	09/06/2011	ND	416	104	400	3.77	
TPH 8015M		mg/kg	Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/07/2011	ND	169	84.5	200	1.21	
DRO >C10-C28	<10.0	10.0	09/07/2011	ND	171	85.3	200	0.811	
Surrogate: 1-Chlorooctane									
	111 %	55.5-154							
Surrogate: 1-Chlorooctadecane									
	116 %	57.6-158							

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

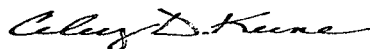
Notes and Definitions

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.



Celest D. Keene, Lab Director/Quality Manager

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

[illegible]

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

#26

February 03, 2012

Hack Conder
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: BD C-23-1 JCT (22/37)

Enclosed are the results of analyses for samples received by the laboratory on 02/01/12 16:47.

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.

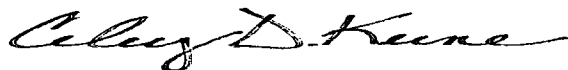
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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 Operating Company
 Hack Conder
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received:	02/01/2012	Sampling Date:	02/01/2012
Reported:	02/03/2012	Sampling Type:	Soil
Project Name:	BD C-23-1 JCT (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 2 @ 10' (H200253-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	02/02/2012	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/03/2012	ND	192	96.0	200	5.21		
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39		

Surrogate: 1-Chlorooctane 73.9 % 55.5-154

Surrogate: 1-Chlorooctadecane 77.0 % 57.6-158

Sample ID: SB 2 @ 40' (H200253-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/03/2012	ND	464	116	400	10.9	
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	02/03/2012	ND	192	96.0	200	5.21	
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39	

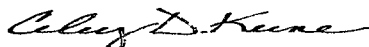
Surrogate: 1-Chlorooctane 90.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 106 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Rice Operating Company
Hack Conder
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received:	02/01/2012	Sampling Date:	02/01/2012
Reported:	02/03/2012	Sampling Type:	Soil
Project Name:	BD C-23-1 JCT (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 3 @ 20' (H200253-03)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3760	16.0	02/03/2012	ND	464	116	400	10.9		
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	02/03/2012	ND	192	96.0	200	5.21		
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39		
<i>Surrogate: 1-Chlorooctane</i>										
	104 %	55.5-154								
<i>Surrogate: 1-Chlorooctadecane</i>										
	120 %	57.6-158								

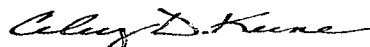
Sample ID: SB 3 @ 55' (H200253-04)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	02/03/2012	ND	464	116	400	10.9		
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	02/03/2012	ND	192	96.0	200	5.21		
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39		
<i>Surrogate: 1-Chlorooctane</i>										
	97.3 %	55.5-154								
<i>Surrogate: 1-Chlorooctadecane</i>										
	96.5 %	57.6-158								

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Rice Operating Company
 Hack Conder
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received:	02/01/2012	Sampling Date:	02/01/2012
Reported:	02/03/2012	Sampling Type:	Soil
Project Name:	BD C-23-1 JCT (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 4 @ 20' (H200253-05)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	02/03/2012	ND	464	116	400	10.9	
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	02/03/2012	ND	192	96.0	200	5.21	
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39	

Surrogate: 1-Chlorooctane 83.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 107 % 57.6-158

Sample ID: SB 4 @ 50' (H200253-06)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	02/03/2012	ND	464	116	400	10.9	
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	02/03/2012	ND	192	96.0	200	5.21	
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39	

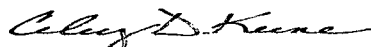
Surrogate: 1-Chlorooctane 92.2 % 55.5-154

Surrogate: 1-Chlorooctadecane 112 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Rice Operating Company
 Hack Conder
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received:	02/01/2012	Sampling Date:	02/01/2012
Reported:	02/03/2012	Sampling Type:	Soil
Project Name:	BD C-23-1 JCT (22/37)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 4 @ 55' (H200253-07)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	02/03/2012	ND	464	116	400	10.9		
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	02/03/2012	ND	192	96.0	200	5.21		
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39		

Surrogate: 1-Chlorooctane 105 % 55.5-154

Surrogate: 1-Chlorooctadecane 130 % 57.6-158

Sample ID: SB 5 @ 45' (H200253-08)

Chloride, SM4500CI-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3360	16.0	02/03/2012	ND	464	116	400	10.9		
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	02/03/2012	ND	192	96.0	200	5.21		
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39		

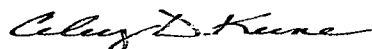
Surrogate: 1-Chlorooctane 101 % 55.5-154

Surrogate: 1-Chlorooctadecane 119 % 57.6-158

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

Rice Operating Company
Hack Conder
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received: 02/01/2012
Reported: 02/03/2012
Project Name: BD C-23-1 JCT (22/37)
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 02/01/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

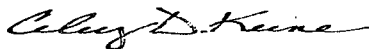
Sample ID: SB 5 @ 55' (H200253-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	02/03/2012	ND	464	116	400	10.9	
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	02/03/2012	ND	192	96.0	200	5.21	
DRO >C10-C28	<10.0	10.0	02/03/2012	ND	221	111	200	5.39	
Surrogate: 1-Chlorooctane		104 %	55.5-154						
Surrogate: 1-Chlorooctadecane		112 %	57.6-158						

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Celey D. Keene, Lab Director/Quality Manager

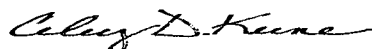
Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

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

March 07, 2012

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD C-23-1 JCT 22S-37E

Enclosed are the results of analyses for samples received by the laboratory on 02/02/12 15:55.

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 Operating Company
Hack Conder
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received:	02/02/2012	Sampling Date:	02/02/2012
Reported:	03/07/2012	Sampling Type:	Soil
Project Name:	BD C-23-1 JCT 22S-37E	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 6 @ 45' (H200261-01)

Chloride, SM4500CI-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4080	16.0	02/06/2012	ND	416	104	400	3.92		
TPH 8015M			mg/kg							Analyzed By: MS
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/06/2012	ND	168	84.0	200	2.09		
DRO >C10-C28	28.9	10.0	02/06/2012	ND	204	102	200	4.41		

Surrogate: 1-Chlorooctane 99.2 % 55.5-154

Surrogate: 1-Chlorooctadecane 151 % 57.6-158

Sample ID: SB 6 @ 55' (H200261-02)

Chloride, SM4500CI-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3240	16.0	02/06/2012	ND	416	104	400	3.92		
TPH 8015M			mg/kg							Analyzed By: MS
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	02/06/2012	ND	168	84.0	200	2.09		
DRO >C10-C28	13.0	10.0	02/06/2012	ND	204	102	200	4.41		

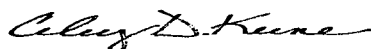
Surrogate: 1-Chlorooctane 105 % 55.5-154

Surrogate: 1-Chlorooctadecane 154 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Rice Operating Company
 Hack Conder
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

 Received: 02/02/2012
 Reported: 03/07/2012
 Project Name: BD C-23-1 JCT 22S-37E
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 02/02/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 7 @ 10' (H200261-03)

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3360	16.0	02/06/2012	ND	416	104	400	3.92	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2012	ND	171	85.3	200	1.93	
DRO >C10-C28	<10.0	10.0	02/07/2012	ND	200	99.9	200	13.1	

Surrogate: 1-Chlorooctane 88.9 % 55.5-154

Surrogate: 1-Chlorooctadecane 99.8 % 57.6-158

Sample ID: SB 7 @ 55' (H200261-04)

Chloride, SM4500CI-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	02/06/2012	ND	416	104	400	3.92	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/07/2012	ND	171	85.3	200	1.93	
DRO >C10-C28	<10.0	10.0	02/07/2012	ND	200	99.9	200	13.1	

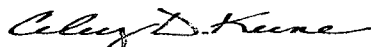
Surrogate: 1-Chlorooctane 78.4 % 55.5-154

Surrogate: 1-Chlorooctadecane 92.1 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

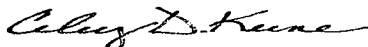
Notes and Definitions

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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

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

Company Name: <u>Rice</u>		P.O. #:		ANALYSIS REQUEST																					
Project Manager: <u>Frank Conder</u>		Company:																							
Address:		City:																							
City:		State:																							
Phone #:		Fax #:																							
Project #:		Project Owner:																							
Project Name:		Zip:																							
Project Location: <u>BD C-23-1 Set 22.5-37E</u>		Phone #:																							
Sampler Name: <u>Kyle Norman</u>		Fax #:																							
FOR LAB USE ONLY		PRESERV		SAMPLING																					
Lab I.D.		Matrix		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER:		ACID/BASE		ICE / COOL		OTHER:		DATE		TIME	
Sample I.D.		(G) RAB OR (C) OMP																							
1 SB 1 @ 45"		G		1																					
2 SB 6 @ 55'		G		1																					
3 SB 7 @ 10'		G		1																					
4 SB 7 @ 10'		G		1																					