

1R - 425-86

REPORTS

DATE:

8-8-11

RECEIVED OCD

L. Peter Galusky, Jr. Ph.D., P.G.

2011 AUG 15 P 1:25

Texerra

627 Forest View Way Monument, Colorado 80132
Tel: 719-339-6791 E-mail: lpg@texerra.com

August 8th, 2011

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: INVESTIGATION & CHARACTERIZATION PLAN REPORT

Rice Operating Company – Vacuum SWD System
Vacuum N-28-2 Vent (Formerly Vacuum K-28-2 Vent)
NMOCD Case Number: 1R425-86. UL/N, Sec. 28, T17S, R35E

Sent via Certified U.S. Mail w/ Return Receipt No. 7008 1830 0004 2694 4293

Mr. Hansen:

RICE Operating Company (ROC) has retained Texerra to address potential environmental concerns at the above-referenced site in the abandoned Vacuum Salt Water Disposal (SWD) system. This report summarizes work to date completed per the OCD-approved Investigation and Characterization Plan of May 3rd, 2011 for this site.

The location of the Vacuum N-28-2 Vent site is given in Figure 1. A summary of soil boring analyses from samples taken in June 2011 are given in Figure 2. Representative photographs of this work are given in the Appendix, as are copies of laboratory analyses.

The site contains residual soil chlorides throughout each of the six soil borings drilled at the site. Field PID readings indicate significant residual petroleum hydrocarbons in the upper ten to fifteen feet in most of the borings, but these remain high (> 100 ppm) with depth only in SB-3 (approximately 15 ft. south of the former vent location, next to an abandoned lease facility). BTEX is below lab detection levels in SB-3 at 65 ft bgs. Minor amounts of BTEX were found nearer the soil surface (within ten to fifteen feet) at SB-3, SB-4 and SB-5.

It is clear from this initial investigation that further sampling and analyses are needed in order to characterize and delineate the extent of residual soil chlorides. Once the site is fully delineated, a report with recommendations will be submitted to the NMOCD.

Vacuum N-28-2 vent ICP Report

ROC is the service provider (agent) for the Vacuum 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.

We appreciate your consideration of this ICP report. Please do not hesitate to contact either Katie Jones of Rice Operating Company or myself if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink, appearing to be 'L. Peter Galusky, Jr.', written in a cursive style.

L. Peter Galusky, Jr. Ph.D.

Copy: Rice Operating Company

Vacuum N-28-2 vent ICP Report

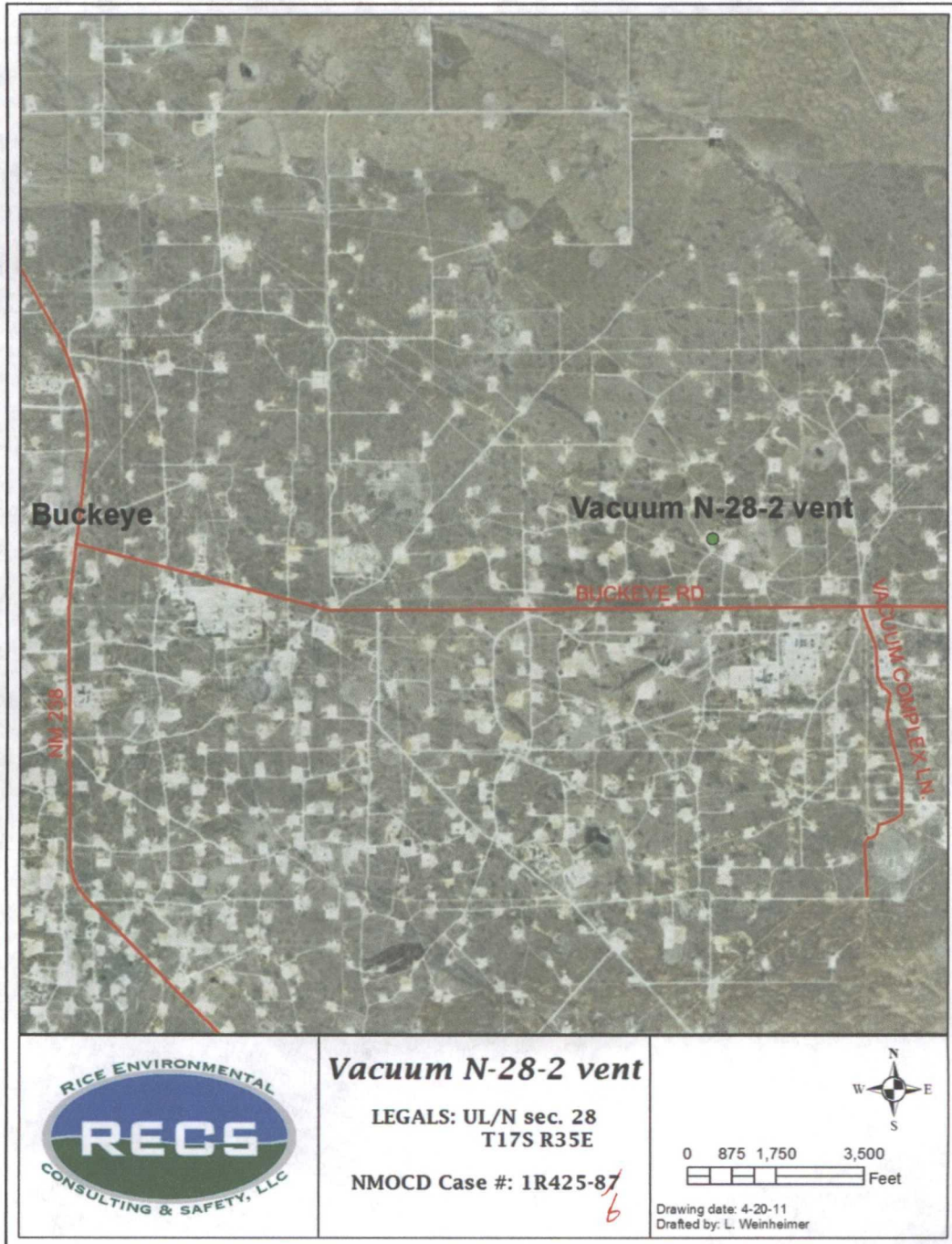


Figure 1 – Vacuum N-28-2 Vent location.

Vacuum N-28-2 vent ICP Report

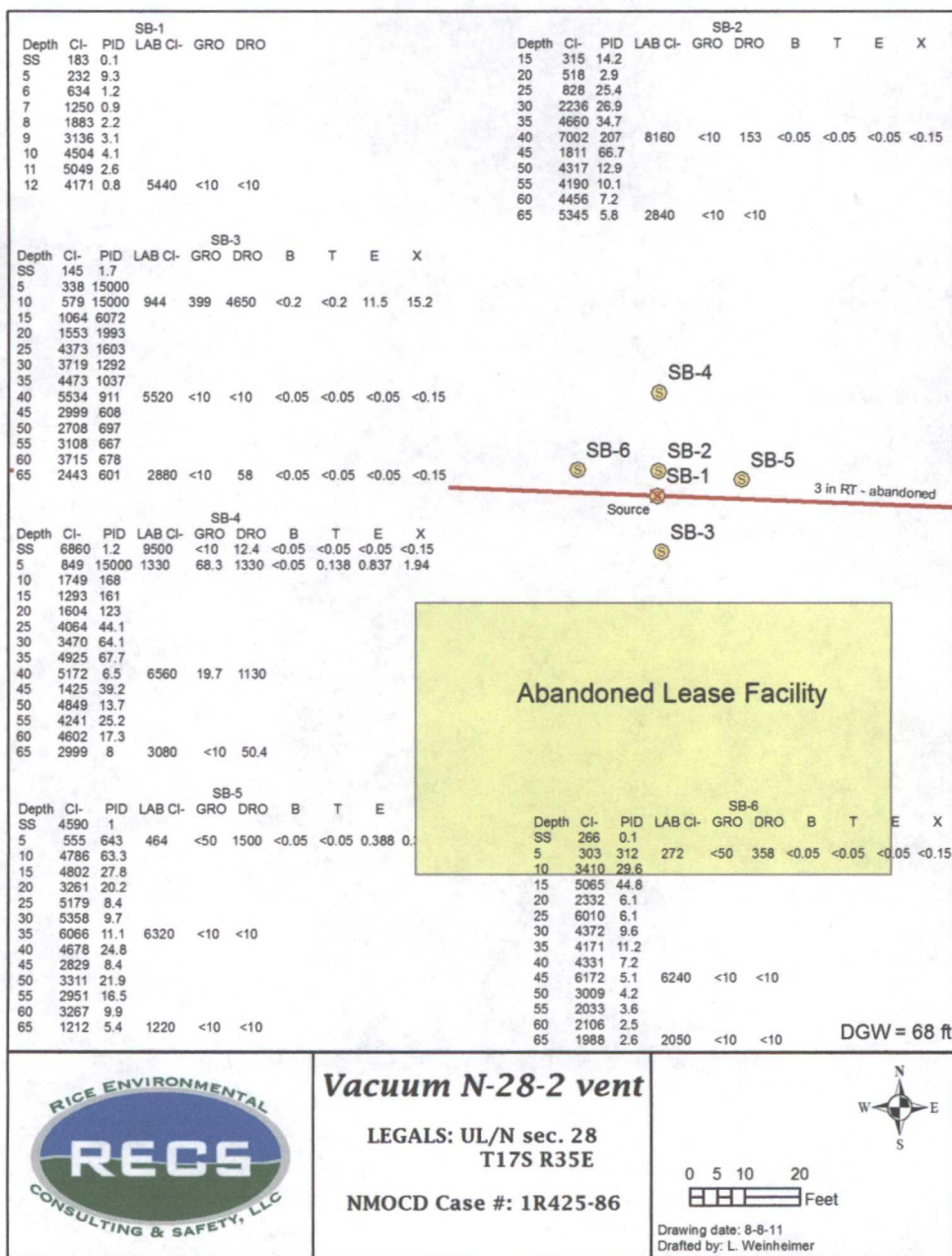


Figure 2 – Summary of soil chloride and petroleum hydrocarbon concentrations from samples taken in June 2011.

Vacuum N-28-2 vent ICP Report

Vacuum N-28-2 vent
Unit N, Section 28, T17S, R35E



drilling SB-2, facing southeast



plugging SB-2 with bentonite, facing east



drilling SB-3, facing southeast



plugging SB-3 with bentonite, facing east



drilling SB-4, facing north



plugging SB-4 with bentonite, facing north

Vacuum N-28-2 vent ICP Report



drilling SB-5, facing east



drilling SB-6, facing south



plugging SB-5 with bentonite, facing east



plugging SB-6 with bentonite, facing south



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

June 20, 2011

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

RE: VACUUM N-28-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/09/11 10:10.

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: 06/09/2011
Reported: 06/20/2011
Project Name: VACUUM N-28-2 VENT
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 06/08/2011
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SB 2 @ 40' (H101194-01)
BTEX 8260B

mg/kg

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2011	ND	2.21	111	2.00	7.93	
Toluene*	<0.050	0.050	06/13/2011	ND	2.24	112	2.00	7.82	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/13/2011	ND	6.54	109	6.00	8.53	

Surrogate: Dibromofluoromethane 100 % 80-120

Surrogate: Toluene-d8 104 % 80-120

Surrogate: 4-Bromofluorobenzene 114 % 80-120

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8160	16.0	06/11/2011	ND	432	108	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	06/14/2011	ND	216	108	200	1.49	
DRO >C10-C28	153	10.0	06/14/2011	ND	203	102	200	7.13	

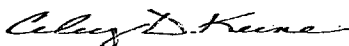
Surrogate: 1-Chlorooctane 123 % 70-130

Surrogate: 1-Chlorooctadecane 139 % 70-130

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:	06/09/2011	Sampling Date:	06/08/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

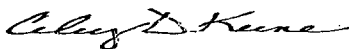
Sample ID: SB 2 @ 65' (H101194-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	06/11/2011	ND	432	108	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	06/14/2011	ND	216	108	200	1.49	
DRO >C10-C28	<10.0	10.0	06/14/2011	ND	203	102	200	7.13	
Surrogate: 1-Chlorooctane	111 %	70-130							
Surrogate: 1-Chlorooctadecane	131 %	70-130							

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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: 06/09/2011
 Reported: 06/20/2011
 Project Name: VACUUM N-28-2 VENT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/08/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 3 @ 10' (H101194-03)

BTX 8260B		mg/kg	Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/13/2011	ND	2.21	111	2.00	7.93	
Toluene*	<0.200	0.200	06/13/2011	ND	2.24	112	2.00	7.82	
Ethylbenzene*	11.5	0.200	06/13/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	15.2	0.600	06/13/2011	ND	6.54	109	6.00	8.53	

Surrogate: Dibromofluoromethane 96.5 % 80-120

Surrogate: Toluene-d8 101 % 80-120

Surrogate: 4-Bromofluorobenzene 111 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	06/11/2011	ND	432	108	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	399	50.0	06/14/2011	ND	216	108	200	1.49	
DRO >C10-C28	4650	50.0	06/14/2011	ND	203	102	200	7.13	

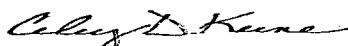
Surrogate: 1-Chlorooctane 123 % 70-130

Surrogate: 1-Chlorooctadecane 130 % 70-130

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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:	06/09/2011	Sampling Date:	06/08/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 3 @ 40' (H101194-04)

BTEX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2011	ND	2.21	111	2.00	7.93	
Toluene*	<0.050	0.050	06/13/2011	ND	2.24	112	2.00	7.82	
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/13/2011	ND	6.54	109	6.00	8.53	

Surrogate: Dibromofluoromethane 107 % 80-120

Surrogate: Toluene-d8 108 % 80-120

Surrogate: 4-Bromofluorobenzene 117 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5520	16.0	06/11/2011	ND	432	108	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	06/14/2011	ND	216	108	200	1.49	
DRO >C10-C28	<10.0	10.0	06/14/2011	ND	203	102	200	7.13	

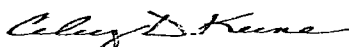
Surrogate: 1-Chlorooctane 123 % 70-130

Surrogate: 1-Chlorooctadecane 143 % 70-130

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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:	06/09/2011	Sampling Date:	06/08/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 3 @ 65' (H101194-05)

BTX 8260B			mg/kg							Analyzed By: CMS
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/13/2011	ND	2.21	111	2.00	7.93		
Toluene*	<0.050	0.050	06/13/2011	ND	2.24	112	2.00	7.82		
Ethylbenzene*	<0.050	0.050	06/13/2011	ND	2.32	116	2.00	8.13		
Total Xylenes*	<0.150	0.150	06/13/2011	ND	6.54	109	6.00	8.53		

Surrogate: Dibromofluoromethane 94.1 % 80-120

Surrogate: Toluene-d8 95.1 % 80-120

Surrogate: 4-Bromofluorobenzene 104 % 80-120

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	06/11/2011	ND	432	108	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	06/14/2011	ND	216	108	200	1.49		
DRO >C10-C28	58.0	10.0	06/14/2011	ND	203	102	200	7.13		

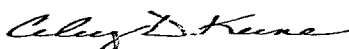
Surrogate: 1-Chlorooctane 111 % 70-130

Surrogate: 1-Chlorooctadecane 127 % 70-130

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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:	06/09/2011	Sampling Date:	06/08/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 4 @ SURFACE SAMPLE (H101194-06)

BTX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2011	ND	2.21	111	2.00	7.93	
Toluene*	<0.050	0.050	06/14/2011	ND	2.24	112	2.00	7.82	
Ethylbenzene*	<0.050	0.050	06/14/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/14/2011	ND	6.54	109	6.00	8.53	

Surrogate: Dibromofluoromethane 97.4 % 80-120

Surrogate: Toluene-d8 102 % 80-120

Surrogate: 4-Bromofluorobenzene 110 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9500	16.0	06/11/2011	ND	432	108	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	06/13/2011	ND	224	112	200	12.3	
DRO >C10-C28	12.4	10.0	06/13/2011	ND	206	103	200	13.9	

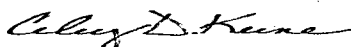
Surrogate: 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 110 % 70-130

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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: 06/09/2011
 Reported: 06/20/2011
 Project Name: VACUUM N-28-2 VENT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/08/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 4 @ 5' (H101194-07)

BTX 8021B		mg/kg	Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2011	ND	1.89	94.5	2.00	3.65	
Toluene*	0.138	0.050	06/20/2011	ND	2.00	100	2.00	4.10	
Ethylbenzene*	0.837	0.050	06/20/2011	ND	2.02	101	2.00	3.90	
Total Xylenes*	1.94	0.150	06/20/2011	ND	6.00	100	6.00	4.06	

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 70-130

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	06/11/2011	ND	432	108	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	68.3	50.0	06/13/2011	ND	142	70.9	200	1.47	
DRO >C10-C28	1330	50.0	06/13/2011	ND	148	73.9	200	3.69	

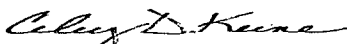
Surrogate: 1-Chlorooctane 87.0 % 70-130

Surrogate: 1-Chlorooctadecane 78.5 % 70-130

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:	06/09/2011	Sampling Date:	06/08/2011
Reported:	06/20/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

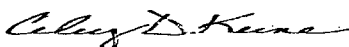
Sample ID: SB 4 @ 65' (H101194-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	06/11/2011	ND	432	108	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	06/13/2011	ND	142	70.9	200	1.47	
DRO >C10-C28	50.4	10.0	06/13/2011	ND	148	73.9	200	3.69	
Surrogate: 1-Chlorooctane	81.5 %	70-130							
Surrogate: 1-Chlorooctadecane	92.3 %	70-130							

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

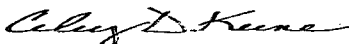
Notes and Definitions

Z-01	One or more surrogates above historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

505-393-4476
#26

NEED SAMPLES BACK, PLEASE



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

June 17, 2011

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

RE: VACUUM N-28-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/10/11 16:20.

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: 06/10/2011
 Reported: 06/17/2011
 Project Name: VACUUM N-28-2 VENT
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 06/09/2011
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SB 5 @ 5' (H101214-01)

BTX 8260B		mg/kg	Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2011	ND	2.21	111	2.00	7.93	
Toluene*	<0.050	0.050	06/14/2011	ND	2.24	112	2.00	7.82	
Ethylbenzene*	0.388	0.050	06/14/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	0.367	0.150	06/14/2011	ND	6.54	109	6.00	8.53	

Surrogate: Dibromofluoromethane 97.6 % 80-120

Surrogate: Toluene-d8 104 % 80-120

Surrogate: 4-Bromofluorobenzene 115 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/15/2011	ND	448	112	400	0.00	

TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/16/2011	ND	206	103	200	5.32	
DRO >C10-C28	1500	50.0	06/16/2011	ND	187	93.3	200	5.61	

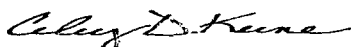
Surrogate: 1-Chlorooctane 91.3 % 70-130

Surrogate: 1-Chlorooctadecane 98.8 % 70-130

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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:	06/10/2011	Sampling Date:	06/09/2011
Reported:	06/17/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 5 @ 35' (H101214-02)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	06/15/2011	ND	448	112	400	0.00		
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	06/16/2011	ND	206	103	200	5.32		
DRO >C10-C28	<10.0	10.0	06/16/2011	ND	187	93.3	200	5.61		
<i>Surrogate: 1-Chlorooctane</i>										
	82.5 %	70-130								
<i>Surrogate: 1-Chlorooctadecane</i>										
	102 %	70-130								

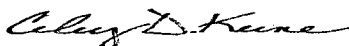
Sample ID: SB 5 @ 65' (H101214-03)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	06/15/2011	ND	448	112	400	0.00		
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	06/16/2011	ND	206	103	200	5.32		
DRO >C10-C28	<10.0	10.0	06/16/2011	ND	187	93.3	200	5.61		
<i>Surrogate: 1-Chlorooctane</i>										
	78.0 %	70-130								
<i>Surrogate: 1-Chlorooctadecane</i>										
	92.2 %	70-130								

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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:	06/10/2011	Sampling Date:	06/09/2011
Reported:	06/17/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 6 @ 5' (H101214-04)

BTX 8260B		mg/kg		Analyzed By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2011	ND	2.21	111	2.00	7.93	
Toluene*	<0.050	0.050	06/14/2011	ND	2.24	112	2.00	7.82	
Ethylbenzene*	<0.050	0.050	06/14/2011	ND	2.32	116	2.00	8.13	
Total Xylenes*	<0.150	0.150	06/14/2011	ND	6.54	109	6.00	8.53	

Surrogate: Dibromofluoromethane 101 % 80-120

Surrogate: Toluene-d8 105 % 80-120

Surrogate: 4-Bromofluorobenzene 112 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/15/2011	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/16/2011	ND	206	103	200	5.32	
DRO >C10-C28	358	50.0	06/16/2011	ND	187	93.3	200	5.61	

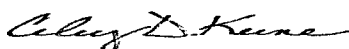
Surrogate: 1-Chlorooctane 79.1 % 70-130

Surrogate: 1-Chlorooctadecane 76.8 % 70-130

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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:	06/10/2011	Sampling Date:	06/09/2011
Reported:	06/17/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB 6 @ 45' (H101214-05)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6240	16.0	06/15/2011	ND	448	112	400	0.00	
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	06/16/2011	ND	206	103	200	5.32	
DRO >C10-C28	<10.0	10.0	06/16/2011	ND	187	93.3	200	5.61	
Surrogate: 1-Chlorooctane		76.2 %	70-130						
Surrogate: 1-Chlorooctadecane		92.5 %	70-130						

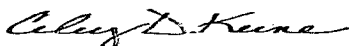
Sample ID: SB 6 @ 65' (H101214-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2050	16.0	06/15/2011	ND	448	112	400	0.00	
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	06/16/2011	ND	206	103	200	5.32	
DRO >C10-C28	<10.0	10.0	06/16/2011	ND	187	93.3	200	5.61	
Surrogate: 1-Chlorooctane		80.6 %	70-130						
Surrogate: 1-Chlorooctadecane		100 %	70-130						

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Celey D. Keene, Lab Director/Quality Manager

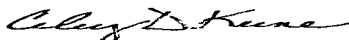
Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

ARDINAL LABORATORIES

BILL TO				ANALYSIS REQUEST															
Company Name: <u>Rice Operating Company</u>				P.O. #:															
Project Manager: <u>Hack Conder</u>				Company:															
Address: <u>122 West Taylor</u>				Attn:															
City: <u>Hobbs</u>				Address:															
State: <u>NM</u>				City:															
Zip: <u>88240</u>				State:															
Phone #: <u>575-393-9174</u>				Phone #:															
Fax #: <u>575-397-1471</u>				Fax #:															
Project Owner: <u></u>				Chlorides															
Project Name: <u>Vacuum N-28-2 Vent</u>				TPH 8015 M															
Project Location: <u>Vacuum N-28-2 Vent</u>				BTEx															
Sampler Name: <u>Jordan Woodfin</u>				Complete Cations/Anions															
TPH 8015 M Extended Thru C40				Texas TPH															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	DATE	TIME												
				GROUNDWATER	ICE / COOL	6/9/11	08:00												
				SLUDGE	OTHER:		08:30												
				SOIL	OTHER:		09:00												
				WASTEWATER	OTHER:		10:00												
							10:30												
							11:00												

Relinquished By: Jordan Woodfin
 Received By: Jordan Woodfin
 Phone Result: ☐ Yes ☒ No
 Add'l Phone #: _____

Relinquished By: _____
 Received By: _____
 Fax Result: ☐ Yes ☒ No
 Add'l Fax #: _____

Relinquished By: _____
 Received By: _____
 REMARKS: _____

Relinquished By: _____
 Received By: _____
 email results

Delivered By: Jordan Woodfin
Checked By: _____
Sample Condition: ☐ Cool ☐ Intact ☐ No ☐ Yes ☐ No ☐ Yes ☐ No ☐ Yes ☐ No

Relinquished By: _____
Received By: _____
Time: _____

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

NEED SAMPLES BACK, PLEASE



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

June 17, 2011

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

RE: VACUUM N-28-2 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/09/11 10:10.

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:	06/09/2011	Sampling Date:	06/08/2011
Reported:	06/17/2011	Sampling Type:	Soil
Project Name:	VACUUM N-28-2 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

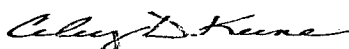
Sample ID: SB 4 @ 40' (H101195-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6560	16.0	06/11/2011	ND	416	104	400	0.00	
TPH 8015M		mg/kg	Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	19.7	10.0	06/14/2011	ND	216	108	200	1.49	
DRO >C10-C28	1130	10.0	06/14/2011	ND	203	102	200	7.13	
Surrogate: 1-Chlorooctane	128 %	70-130							
Surrogate: 1-Chlorooctadecane	139 %	70-130							

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Caley D. Keene, Lab Director/Quality Manager

Notes and Definitions

Z-01 One or more surrogates above historical limits.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

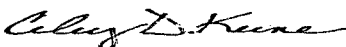
*** Insufficient time to reach temperature.

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

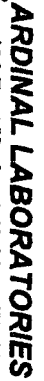
 Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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