

AP - 47

ANNUAL MONITORING REPORT

YEAR(S):
2010



TETRA TECH

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March 25, 2011

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

Re: 2010 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Blinebry Drinkard (BD) SWD System Junction Box F-17, Unit F, Section 17, T-21-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0426-14 (AP-47)

Mr. Hansen:

Tetra Tech Inc. (Tetra Tech) takes this opportunity to submit the 2010 Annual Groundwater Summary Report for the Rice Operating Company (ROC), Blinebry Drinkard (BD) SWD System junction box F-17. This report consists of the following sections:

1. A figure presenting the location of the monitoring wells and most recent groundwater sampling results.
2. Tables summarizing all laboratory results and depths to groundwater at the site, including the current year (2010)
3. Graphs depicting the concentration of chlorides, total dissolved solids (TDS), and sulfates over time.
4. Laboratory results for the most recent groundwater sampling report.

In a meeting between the NMOCD, ROC and Tetra Tech on July 18, 2007 and January 23, 2008, it was agreed the source of the chlorides appeared to be from an up-gradient source based on groundwater gradient and chloride concentration maps. As such, it was agreed that ROC would reissue the original termination report requesting no additional groundwater monitoring. The termination request was submitted to the NMOCD in June 2008. On January 8, 2009, the NMOCD rejected ROC's request for a termination of groundwater activities at the site. In the letter, Mr. Hansen recommended

Tetra Tech

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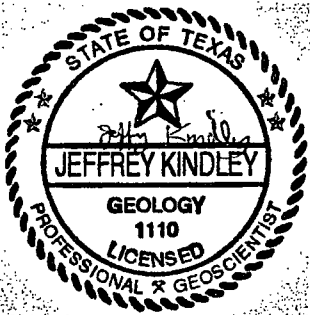


TETRA TECH

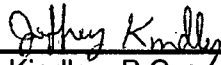
that an additional monitor well be installed up-gradient of the tank battery. On July 26, 2010, ROC installed up gradient monitor well MW-4. Soil activities and liner installation was completed October 5, 2010. ROC is preparing a final report of the corrective action for NMOCD review.

ROC is the service provider (agent) for the BD Salt Water Disposal System and has no ownership of any portion of the pipeline, well or facility. The BD SWD system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration of this annual summary information. If you have any questions, please contact me at (432) 682-4559, or Hack Conder of ROC at (575) 393-9174.



Respectfully Submitted,
Tetra Tech, Inc

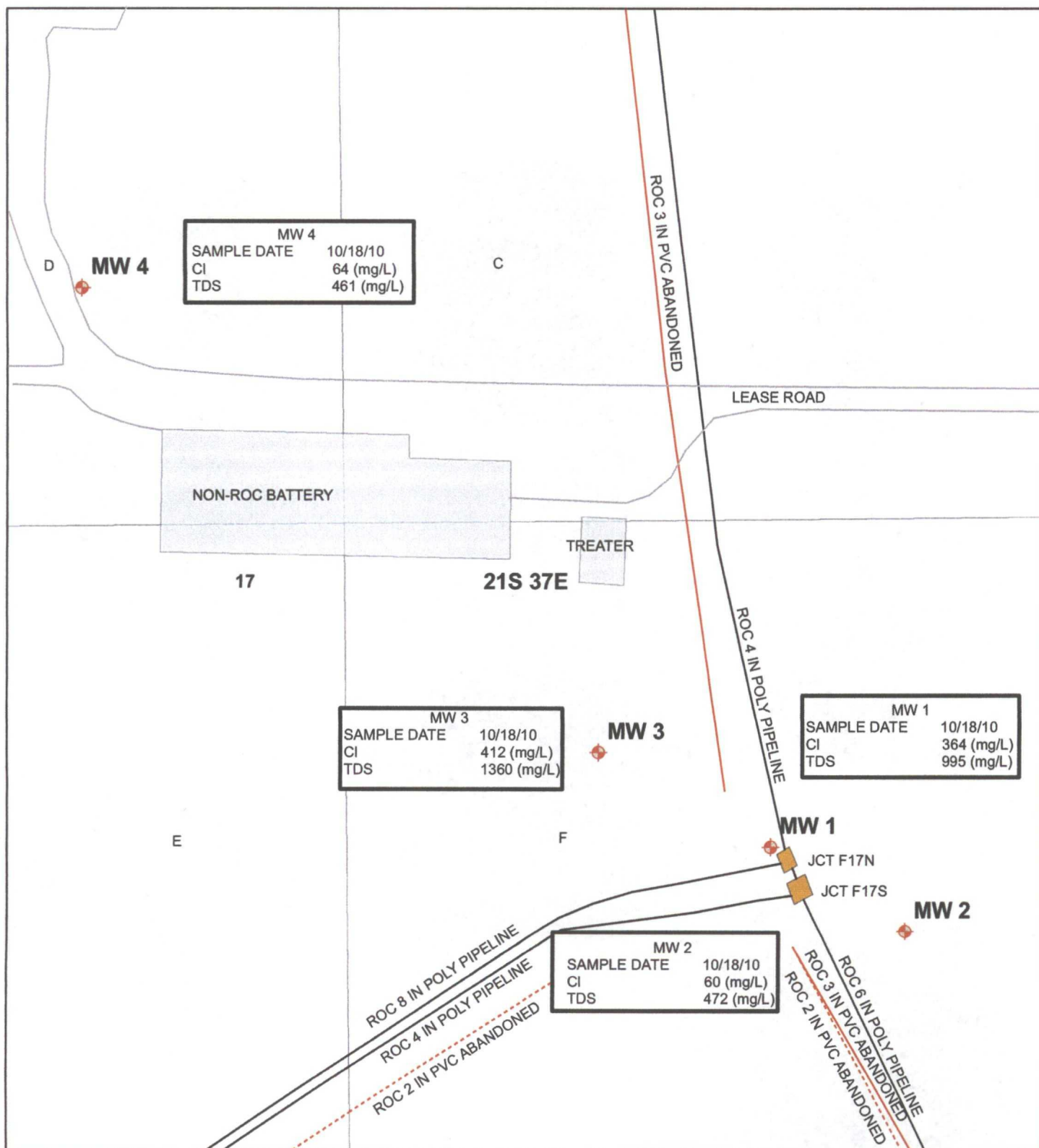


Jeffrey Kindley, P.G.
Senior Environmental Geologist

cc: Hack Conder – ROC
Enclosures: Figure, Tables, Graphs, and Lab Results

FIGURES

MONITOR WELL SAMPLING DATA



BD JCT F-17
Legals: UL/D&F SEC. 17
T-21-S R-37-E
Case #: AP-47

FIGURE 1



0 40 80 160
Feet

Drawing date: 3/9/11
Drafted by: TONY GRIECO

TABLES

Table 1
Rice Operating Company
BD F-17
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	Comments
1	75.67	85.20	1.5240	4.5	06/05/03	177	589	0.004	<0.001	<0.001	<0.001	97.6	xxx
1	75.73	85.12	1.50	4.5	08/22/03	549	1540	<0.001	<0.001	<0.001	<0.001	112	xxx
1	75.75	84.85	1.456	4.3	11/20/03	851	2160	<0.001	<0.001	<0.001	<0.001	132	xxx
1	75.73	84.48	1.40	4.2	02/25/04	415	1300	<0.001	<0.001	<0.001	<0.001	96.8	xxx
1	71.75	85.12	2.13	6.4	05/27/04	195	726	<0.001	<0.001	<0.001	<0.001	97.8	xxx
1	75.48	84.60	1.46	4.4	09/02/04	284	896	<0.001	<0.001	<0.001	<0.001	90.6	Lt brown
1	75.10	84.00	1.42	4.5	12/21/04	886	3120	<0.001	<0.001	<0.001	<0.001	96.2	xxx
1	75.18	84.07	1.42	4.26	01/16/05	2970	6280	<0.001	<0.001	<0.001	<0.001	257	Re-sample
1	75.21	84.20	1.44	5.0	04/28/05	2510	4640	<0.001	<0.001	<0.001	<0.001	259	xxx
1	75.20	84.15	1.43	10.0	06/21/05	2310	4770	<0.001	<0.001	<0.001	<0.001	339	xxx
1	xxx	xxx	xxx	xxx	09/19/05	1890	4540	<0.001	<0.001	<0.001	<0.001	147	xxx
1	75.20	84.20	1.40	5.0	10/17/05	2400	4830	<0.001	<0.001	<0.001	<0.001	319	xxx
1	85.15	84.20	1.40	8.0	01/16/06	2090	4410	<0.001	<0.001	<0.001	<0.001	154	Silt to clear
1	75.20	84.20	1.40	8.0	04/11/06	2130	4340	<0.001	<0.001	<0.001	<0.001	167	Silt to clear
1	75.22	84.20	1.40	10.0	07/11/06	1930	3440	<0.001	<0.001	<0.001	<0.001	126	Clear
1	75.22	84.20	1.40	10.0	10/05/06	1020	2170	<0.001	<0.001	<0.001	<0.001	98.1	Clear
1	75.22	87.35	1.90	8.0	02/06/07	1480	2410	<0.001	<0.001	<0.001	<0.001	120	Clear
1	75.24	87.35	1.90	8.0	04/16/07	1110	2610	<0.001	<0.001	<0.001	<0.001	202	Clear
1	75.25	87.35	1.90	8.0	07/23/07	637	2110	<0.001	<0.001	<0.001	<0.002		Clear
1	75.24	87.35	1.90	8.0	10/04/07	720	1765	<0.001	<0.001	<0.001	<0.003	107	Clear
1	75.22	87.35	1.90	8.0	01/11/08	780	1760	<0.001	<0.001	0.001	0.004	115	Clear
1	75.23	87.35	1.90	8.0	04/03/08	436	1120	<0.001	<0.001	<0.001	<0.003	85.7	Clear
1	75.28	87.35	1.90	8.0	07/08/08	820	1960	<0.001	<0.001	<0.001	<0.003	105	Clear
1	75.31	87.35	1.90	8.0	10/08/08	530	1610	<0.001	<0.001	<0.001	<0.003	103	Clear
1	75.29	88.30	2.10	8.0	01/12/09	440	1160	xxx	xxx	xxx	xxx	101	Clear
1	75.30	88.30	2.10	8.0	04/20/09	404	1040	xxx	xxx	xxx	xxx	96.3	Clear
1	75.29	88.30	2.10	8.0	07/22/09	450	1160	xxx	xxx	xxx	xxx	94.5	Clear
1	75.30	88.30	2.10	8.0	10/15/09	450	1140	xxx	xxx	xxx	xxx	89.3	Clear/no odor
1	75.30	88.40	2.10	8.0	01/21/10	420	1120	xxx	xxx	xxx	xxx	112	Clear/no odor
1	75.27	88.40	2.10	8.0	04/20/10	370	944	xxx	xxx	xxx	xxx	118	Sand to clear
1	75.28	88.40	2.10	8.0	07/21/10	424	1190	xxx	xxx	xxx	xxx	112	Sand to clear
1	75.27	88.40	2.10	8.0	10/18/10	364	995	xxx	xxx	xxx	xxx	118	Sand to clear

Graph 1
 Rice Operating Company
 MW-1
 BD F-17
 Lea County, New Mexico

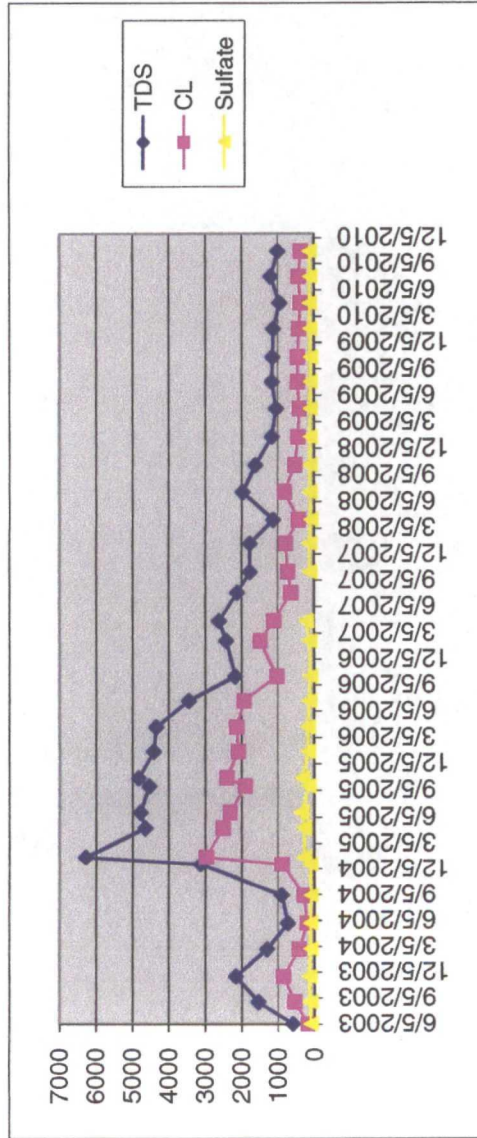


Table 2
Rice Operating Company
BD F-17
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	Comments
2	75.55	90.00	2.30	10.0	03/27/06	50.8	412	<0.001	<0.001	<0.001	<0.001	58.4	xxx
2	75.90	90.00	2.30	10.0	04/11/06	57.9	436	<0.001	<0.001	<0.001	<0.001	68.2	xxx
2	75.60	90.00	2.30	10.0	07/11/06	60.5	456	<0.001	<0.001	<0.001	<0.001	73.3	xxx
2	75.62	90.00	2.30	10.0	10/05/06	47.6	442	<0.001	<0.001	<0.001	<0.001	59.2	Clear no odor
2	75.61	89.44	2.20	10.0	02/06/07	56	424	<0.001	<0.001	<0.001	<0.001	66.5	Clear no odor
2	75.62	89.44	2.20	8.0	04/16/07	58.5	414	<0.001	<0.001	<0.001	<0.001	74.2	Clear no odor
2	75.68	89.44	2.20	8.0	07/23/07	66.8	440	<0.001	<0.001	<0.001	<0.002		Sandy
2	75.61	89.44	2.20	8.0	10/04/07	64	475	<0.001	<0.001	<0.001	<0.003	80.5	Clear no odor
2	75.59	89.52	2.20	8.0	01/11/08	64	470	<0.001	<0.001	<0.001	<0.003	76	Clear no odor
2	75.61	89.52	2.20	8.0	04/03/08	60	446	<0.001	<0.001	<0.001	<0.003	77.2	Clear no odor
2	75.66	89.52	2.20	8.0	07/08/08	64	441	<0.001	<0.001	<0.001	<0.003	72.1	Clear no odor
2	75.70	89.52	2.20	8.0	10/08/08	60	483	<0.001	<0.001	<0.001	<0.003	79	Clear no odor
2	75.69	89.28	2.20	8.0	01/12/09	64	482	xxx	xxx	xxx	xxx	75	Clear no odor
2	75.72	89.28	2.20	8.0	04/20/09	60	443	xxx	xxx	xxx	xxx	79.4	Clear no odor
2	75.67	89.28	2.20	8.0	07/22/09	64	455	xxx	xxx	xxx	xxx	75.3	Clear no odor
2	75.68	89.28	2.20	8.0	10/15/09	64	474	xxx	xxx	xxx	xxx	71.9	Clear no odor
2	75.66	89.15	2.20	8.0	01/21/10	60	504	xxx	xxx	xxx	xxx	93.9	Clear no odor
2	75.63	89.15	2.20	8.0	04/20/10	64	462	xxx	xxx	xxx	xxx	83	Sand to clear
2	75.66	89.15	2.20	8.0	07/21/10	72	428	xxx	xxx	xxx	xxx	82.5	Sand to clear
2	75.62	89.15	2.20	8.0	10/18/10	60	472	xxx	xxx	xxx	xxx	70.2	Sand to clear

Graph 2
Rice Operating Company
MW-2
BD F-17
Lea County, New Mexico

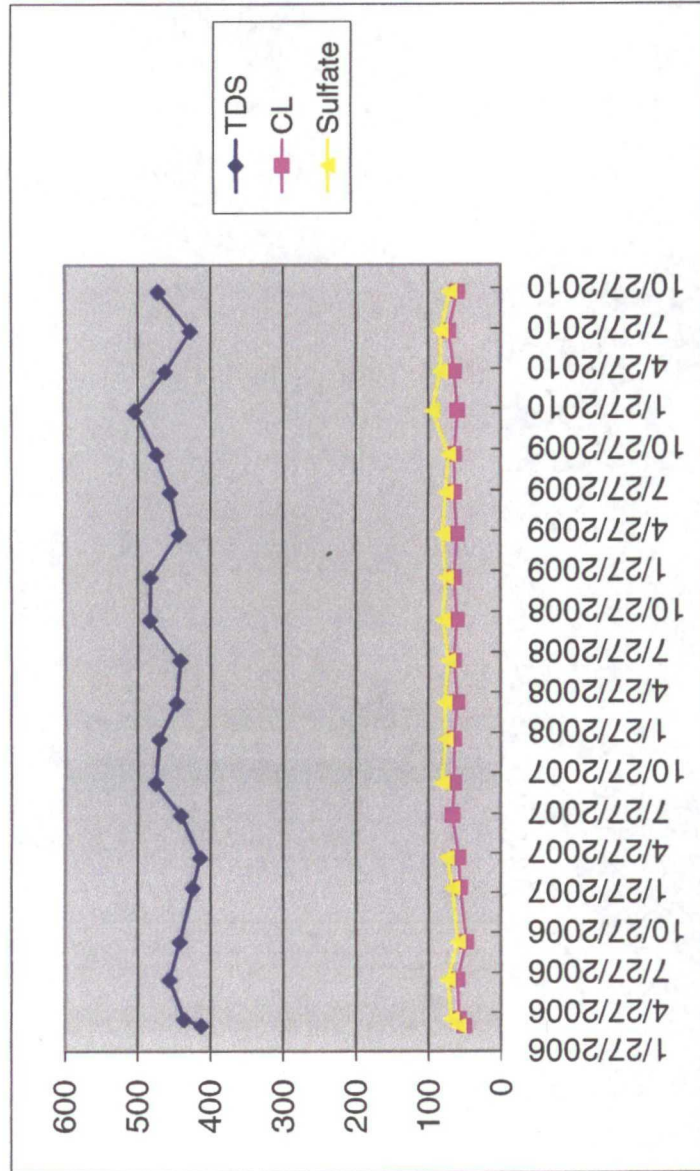


Table 3

Rice Operating Company
BD F-17

Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	Comments
3	73.91	88.00	2.30	10.0	03/27/06	901	2240	<0.001	<0.001	<0.001	<0.001	126	xxx
3	73.93	88.00	2.30	10.0	04/11/06	1340	2750	<0.001	<0.001	<0.001	<0.001	138	xxx
3	73.91	88.00	2.30	10.0	07/11/06	1680	3300	<0.001	<0.001	<0.001	<0.001	125	xxx
3	73.95	88.00	2.20	10.0	10/05/06	1600	3900	<0.001	<0.001	<0.001	<0.001	134	Clear
3	73.92	87.84	2.20	10.0	02/06/07	1490	2350	<0.001	<0.001	<0.001	<0.001	132	Clear
3	73.92	87.84	2.20	10.0	04/16/07	999	2950	<0.001	<0.001	<0.001	<0.001	177	Clear
3	73.98	87.84	2.20	8.0	07/23/07	1040	3190	<0.001	<0.001	<0.001	<0.002		Clear
3	73.97	87.84	2.20	8.0	10/04/07	830	2235	<0.001	<0.001	<0.001	<0.003	150	Clear
3	73.95	87.79	2.20	8.0	01/11/08	2160	4845	<0.001	<0.001	<0.001	<0.003	130	Clear
3	73.96	87.79	2.20	8.0	04/03/08	2140	4780	<0.001	<0.001	<0.001	<0.003	221	Clear
3	73.97	87.79	2.20	8.0	07/08/08	2500	6000	<0.001	<0.001	<0.001	<0.003	239	Clear
3	74.03	87.79	2.20	8.0	10/08/08	2080	4910	<0.001	<0.001	<0.001	<0.003	436	Clear
3	74.02	87.65	2.20	8.0	01/12/09	1400	3460	xxx	xxx	xxx	xxx	241	Clear
3	74.02	87.65	2.20	8.0	04/20/09	2200	4440	xxx	xxx	xxx	xxx	219	Clear
3	74.01	87.65	2.20	8.0	07/22/09	1880	4540	xxx	xxx	xxx	xxx	214	Clear
3	74.03	87.65	2.20	8.0	10/15/09	1180	2620	xxx	xxx	xxx	xxx	206	Clear
3	74.05	87.48	2.10	8.0	01/21/10	880	2120	xxx	xxx	xxx	xxx	243	Clear/No odor
3	74.00	87.48	2.20	8.0	04/20/10	1160	2700	xxx	xxx	xxx	xxx	229	Clear/No odor
3	74.02	87.48	2.20	8.0	07/21/10	530	1510	xxx	xxx	xxx	xxx	199	Clear/No odor
3	73.99	87.48	2.20	8.0	10/18/10	412	1360	xxx	xxx	xxx	xxx	194	Clear/No odor

Graph 3
Rice Operating Company
MW-3
BD F-17
Lea County, New Mexico

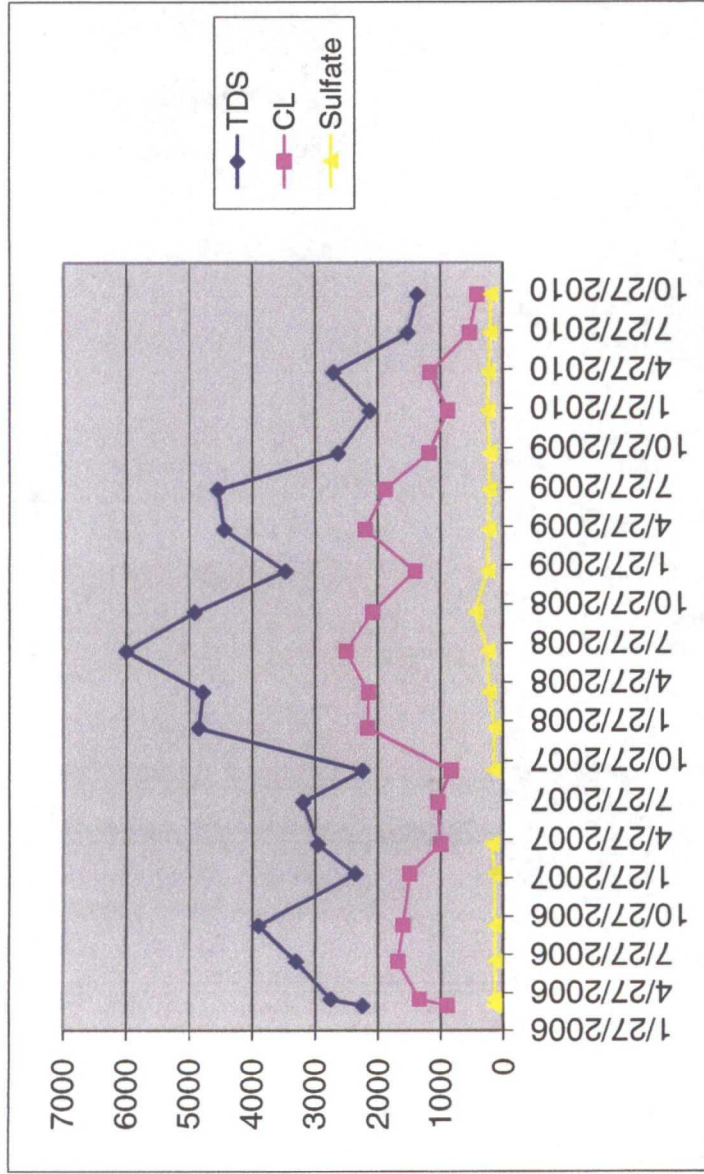
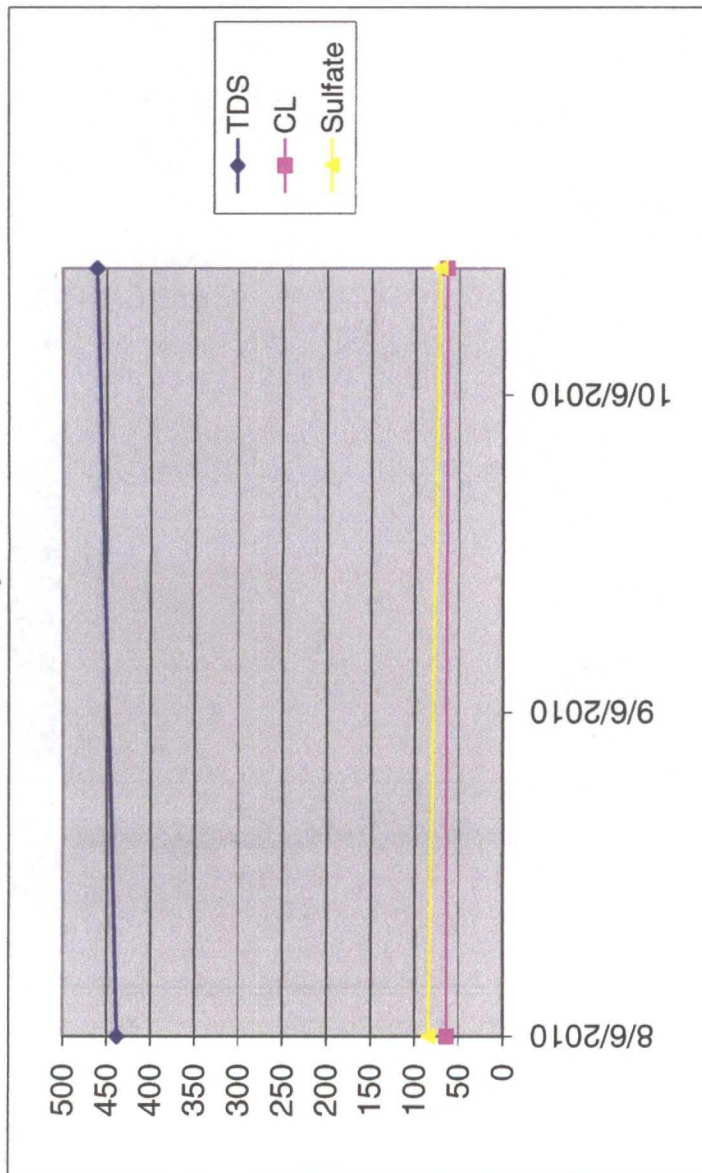


Table 4 Rice Operating Company BD F-17 Lea County, New Mexico													
MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl mg/L	TDS mg/L	Benzene mg/L	Toluene mg/L	Ethyl Benzene mg/L	Total Xylenes mg/L	Sulfate mg/L	Comments
4	77.74	91.95	2.30	10.0	08/06/10	64	438	<0.001	<0.001	<0.001	<0.003	84	Sand to clear
4	77.76	91.95	2.30	10.0	10/18/10	64	461	<0.001	<0.001	<0.001	<0.003	71.9	Sand to clear

Graph 4
Rice Operating Company
MW-4
BD F-17
Lea County, New Mexico



APPENDIX A



October 27, 2010

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

RE: BD JUNCTION F-17

Enclosed are the results of analyses for samples received by the laboratory on 10/19/10 10:40.

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



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

Analytical Results For:

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

Received: 10/19/2010
Reported: 10/27/2010
Project Name: BD JUNCTION F-17
Project Number: NOT GIVEN
Project Location: T21S R37E SEC17 F - LEA CTY., NM

Sampling Date: 10/18/2010
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MONITOR WELL #1 (H021098-01)

Chloride, SM4500Cl-B			mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	364	4.00	10/21/2010	ND	108	108	100	3.77		
Sulfate 375.4			mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate	118	10.0	10/20/2010	ND	37.8	94.5	40.0	4.75		
TDS 160.1			mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	995	5.00	10/20/2010	ND				1.40		

Sample ID: MONITOR WELL #2 (H021098-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	60.0	4.00	10/21/2010	ND	108	108	100	3.77		
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate	70.2	10.0	10/20/2010	ND	37.8	94.5	40.0	4.75		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	472	5.00	10/20/2010	ND				1.40		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 10/19/2010
Reported: 10/27/2010
Project Name: BD JUNCTION F-17
Project Number: NOT GIVEN
Project Location: T21S R37E SEC17 F - LEA CTY., NM

Sampling Date: 10/18/2010
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MONITOR WELL #3 (H021098-03)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	412	4.00	10/21/2010	ND	108	108	100	3.77		
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate	194	10.0	10/20/2010	ND	37.8	94.5	40.0	4.75		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	1360	5.00	10/20/2010	ND				1.46		

Cardinal Laboratories

* = Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

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Analytical Results For:

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

Received: 10/19/2010
Reported: 10/27/2010
Project Name: BD JUNCTION F-17
Project Number: NOT GIVEN
Project Location: T21S R37E SEC17 F - LEA CTY., NM

Sampling Date: 10/18/2010
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: MONITOR WELL #4 (H021098-04)**BTEX 8021B****mg/L****Analyzed By: cms**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/22/2010	ND	0.055	109	0.0500		
Toluene*	<0.001	0.001	10/22/2010	ND	0.051	103	0.0500		
Ethylbenzene*	<0.001	0.001	10/22/2010	ND	0.052	104	0.0500		
Total Xylenes*	<0.003	0.003	10/22/2010	ND	0.161	107	0.150		

*Surrogate: 4-Bromofluorobenzene (PIL) 103 % 80-120***Chloride, SM4500Cl-B****mg/L****Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	4.00	10/21/2010	ND	108	108	100	3.77	

Sulfate 375.4**mg/L****Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	71.9	10.0	10/20/2010	ND	37.8	94.5	40.0	4.75	

TDS 160.1**mg/L****Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	461	5.00	10/20/2010	ND				1.46	

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* = Accredited Analyte

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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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