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Annual GW Mon. REPORTS



R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

March 16, 2011

Edward J. Hansen Oil Conservation Division 1220 South St. Francis Drive Santa Fe, NM 87505 RECEIVED

🗇 MAR 18 2011

RE: 2010 Annual Ground Water Monitoring Report BD B-29, Sec 29, T21S, R37E, Unit "B" NMOCD Case #: 1R0426-169

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

Mr. Hansen,

R.T. Hicks Consultants, Ltd. is pleased to submit this 2010 Annual Ground Water Monitoring Report for the B-29 site located in the BD Salt Water Disposal System (SWD). This report contains:

- 1. A table presenting all laboratory results and depth to ground water for each well at the site.
- 2. Graphs showing the concentration of chloride and TDS in ground water over time.
- 3. A figure presenting the location of the monitoring wells and the most recent ground water sampling results.
- 4. The laboratory analysis from the most recent ground water sampling event.

An Investigation and Characterization Report was submitted to NMOCD on September 21, 2010. An up-gradient well was drilled at this site in November of 2010. Quarterly ground water monitoring will continue through 2011.

ROC is the service provider (agent) for the BD Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. A consortium of oil producers who own the BD SWD System (System Parties) provide all operating capital on a percentage ownership/usage basis. Major projects require System Parties' authorization for expenditures (AFE); approval and work begins as funds are received.

Thank you for your consideration. If you have any questions, please contact us at 505-266-5004, or Hack Conder at Rice Operating Company, 575-393-9174.

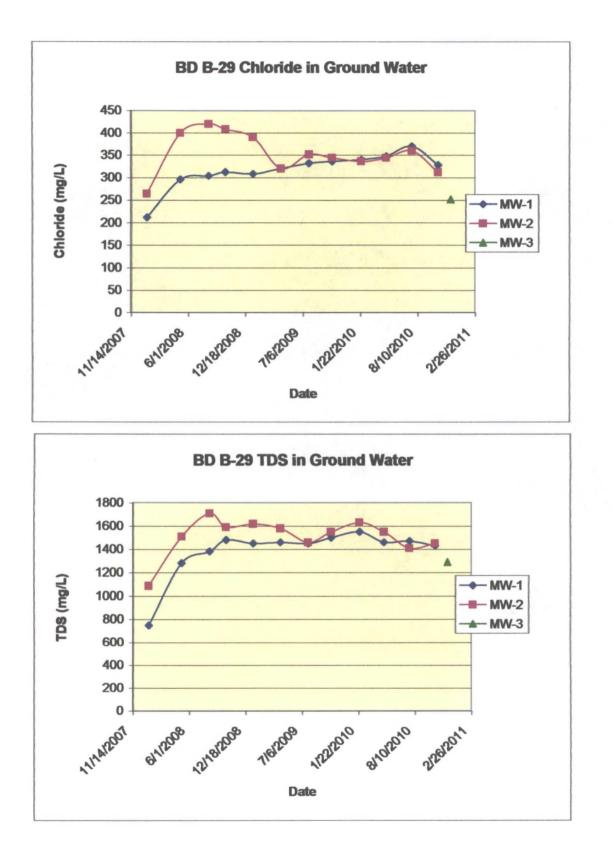
Sincerely, R.T. Hicks Consultants

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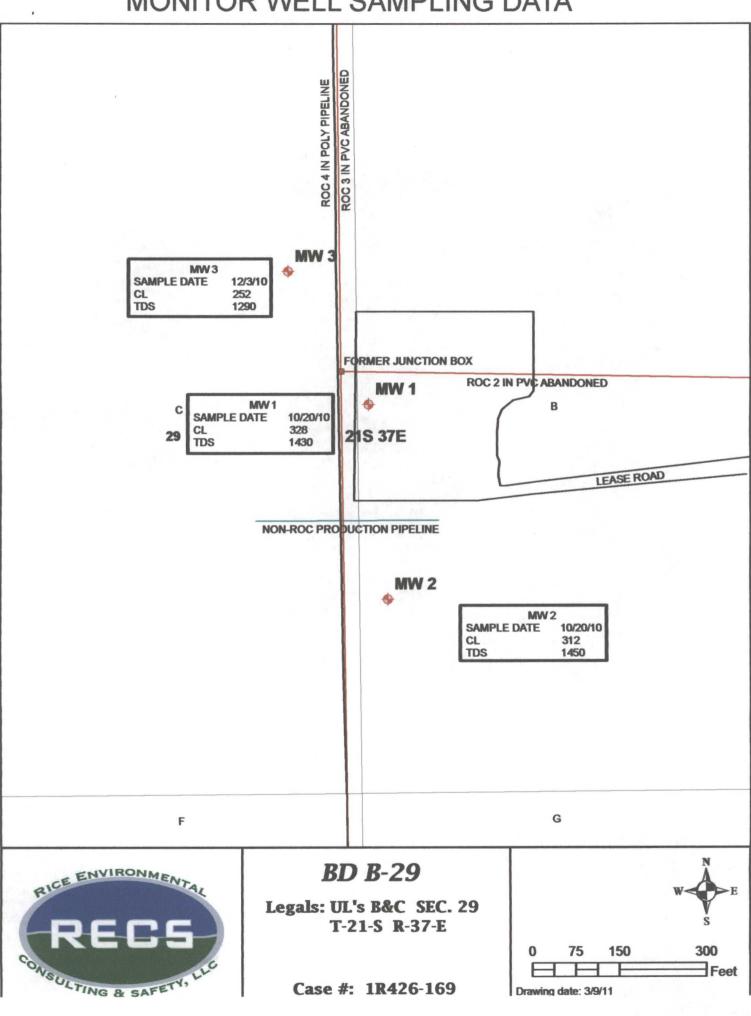
Katie Lee Project Scientist

Copy: Hack Conder, Rice Operating Company

ROC BD B	\sim	Case #: 1R0426-169	169	ſ					:
# MW	Depth to	Sample Date	ច	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
	Water (ft)						(mg/L)		
1	90.07	1/9/2008	212	749	<0.001	<0.001	<0.001	<0.003	128
~	90.13	5/5/2008	296	1280	<0.002	<0.002	<0.002	<0.006	462
-	90.35	8/12/2008	304	1380	<0.001	<0.001	<0.001	<0.003	456
-	90.24	10/9/2008	312	1480	<0.001	<0.001	<0.001	<0.003	393
	90.21	1/13/2009	308	1450	<0.001	<0.001	<0.001	<0.003	479
-	90.26	4/20/2009	320	1460	<0.001	<0.001	<0.001	<0.003	518
-	90.29	7/27/2009	332	1450	<0.001	<0.001	<0.001	<0.003	444
-	90.32	10/16/2009	336	1500	<0.001	<0.001	<0.001	<0.003	437
-	90.35	1/25/2010	340	1550	<0.001	<0.001	<0.001	<0.003	502
-	90.34	4/22/2010	348	1460	<0.001	<0.001	<0.001	<0.003	539
-	90.32	7/21/2010	370	1470	<0.001	<0.001	<0.001	<0.003	494
-	90.29	10/20/2010	328	1430	<0.001	<0.001	<0.001	<0.003	467
	Donth to		ī	TDS	Ranzana	Toluene	Ethvl Renzene	Total Xvlenes	Sulfate
# MM	Water (ft)	Sample Date	5				(mg/L)		
2	89.38	1/9/2008	264	1085	<0.001	<0.001	0.002	<0.003	257
2	89.31	5/5/2008	400	1510	<0.002	<0.002	<0.002	<0.006	502
2	89.55	8/12/2008	420	1710	<0.001	<0.001	<0.001	<0.003	432
2	89.51	10/9/2008	408	1590	<0.001	<0.001	<0.001	<0.003	421
2	89.48	1/13/2009	390	1620	<0.001	<0.001	<0.001	<0.003	488
2	89.5	4/20/2009	320	1580	<0.001	<0.001	<0.001	<0.003	497
2	89.52	7/27/2009	352	1460	<0.001	<0.001	<0.001	<0.003	444
2	89.49	10/16/2009	344	1550	<0.001	<0.001	<0.001	<0.003	416
2	89.56	1/25/2010	336	1630	<0.001	<0.001	<0.001	<0.003	510
2	89.48	4/22/2010	344	1550	<0.001	<0.001	<0.001	<0.003	488
2	89.45	7/21/2010	360	1410	<0.001	<0.001	<0.001	<0.003	473
2	89.47	10/20/2010	312	1450	<0.001	<0.001	<0.001	<0.003	455
	Depth to		ច	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
# MM	Water (ft)	Sample Date					(mg/L)		
e	89.96	12/3/2010	252	1290	<0.001	<0.001	<0.001	<0.003	459



MONITOR WELL SAMPLING DATA



October 28, 2010

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

RE: BD B-29 LEAK

Enclosed are the results of analyses for samples received by the laboratory on 10/22/10 12:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod SW-846 8260Benzene, Toluene, Ethyl Benzene, and Total XylenesMethod TX 1005Total Petroleum Hydorcarbons

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

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

Method EPA 552.2Haloacetic Acids (HAA-5)Method EPA 524.2Total Trihalomethanes (TTHM)Method EPA 524.4Regulated 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. Keine

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:	10/22/2010	Sampling Date:	10/20/2010
Reported:	10/28/2010	Sampling Type:	Water
Project Name:	BD B-29 LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC29 B - LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H021130-01)

BTEX 8021B	mg/	L	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/27/2010	ND	0.027	109	0.0250		
Toluene*	<0.001	0.001	10/27/2010	ND	0.027	110	0.0250		
Ethylbenzene*	<0.001	0.001	10/27/2010	ND	0.028	. 113	0.0250		
Total Xylenes*	<0.003	0.003	10/27/2010	ND	0.083	111	0.0750		
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 80-120	<u> </u>						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	328	4.00	10/26/2010	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	467	10.0	10/26/2010	ND	36.8	92.0	40.0	0.319	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1430	5.00	10/25/2010	ND				1.46	

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:	10/22/2010	Sampling Date:	10/20/2010
Reported:	10/28/2010	Sampling Type:	Water
Project Name:	BD B-29 LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC29 B - LEA CTY., NM	•	· ·

Sample ID: MONITOR WELL #2 (H021130-02)

BTEX 8021B	mg/	L	Analyze	d By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	10/28/2010	ND	0.027	109	0.0250		
Toluene*	<0.001	0.001	10/28/2010	ND	0.027	110	0.0250		
Ethylbenzene*	<0.001	0.001	10/28/2010	ND	0.028	113	0.0250		
Total Xylenes*	<0.003	0.003	10/28/2010	ND	0.083	111	0.0750		
Surrogate: 4-Bromofluorobenzene (PIL	113 %	6 80-120							
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	312	4.00	10/26/2010	ND	100	100	100	0.00	
Sulfate 375.4	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	455	10.0 [^]	10/26/2010	ND	36.8	92.0	40.0	0.319	
TDS 160.1	mg/	L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1450	5.00	10/25/2010	ND				1.46	

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*=Accredited Analyte

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Celiny une

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

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

December 15, 2010

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD B-29 LEAK

Enclosed are the results of analyses for samples received by the laboratory on 12/07/10 11:50.

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 Hydorcarbons

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

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

Method EPA 552.2Haloacetic Acids (HAA-5)Method EPA 524.2Total Trihalomethanes (TTHM)Method EPA 524.4Regulated 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. Keine

Celey D. Keene Lab Director/Quality Manager



PHONE (\$75) 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:	12/07/2010	Sampling Date:	12/03/2010
Reported:	12/15/2010	Sampling Type:	Water
Project Name:	BD B-29 LEAK	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R37E SEC29 B - LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H021466-01)

BTEX 8021B	mg/	L	Analyze	d By: CMS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	12/14/2010	. ND	0.025	101	0.0250	23.9	
Toluene*	<0.001	0.001	12/14/2010	ND -	0.025	99.7	0.0250	23.8	
Ethylbenzene*	<0.001	0.001	12/14/2010	ND	0.025	99.1	0.0250	21.5	
Total Xylenes*	<0.003	0.003	12/14/2010	ND	0.072	96.7	0.0750	21.0	
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 80-120)						
Chloride; SM4500Cl-B	mg/	'L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	252	4.00	12/09/2010	ND	112	112	100	3.64	
Sulfate 375.4	mg/	′L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	459	10.0	12/09/2010	ND	43.2	108	40.0	0.922	
TDS 160.1	mg/	'L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1290	5.00	12/08/2010	ND				2.86	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 wahed unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims basics stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reprodued except in full with written approval of Cardinal Liboratories.

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Celey D. Keene, Lab Director/Quality Manager

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