

AP - 58

STAGE 2 REPORT

Date
6-23-11

CERTIFIED MAIL
RETURN RECEIPT NO. 7009 2250 0001 4928 0186



June 23, 2011

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

**RE: STAGE 2 PROGRESS REPORT #2
BD SANTA RITA EOL RELEASE SITE (AP-58)
T22S, R37E, SECTION 27, UNIT LETTER A
LEA COUNTY, NEW MEXICO**

2011 JUN 27 P

Mr. Hansen:

As agent for Rice Operating Company (ROC), Trident Environmental submits this second Stage 2 Progress Report to update the NMOCD on the corrective actions performed at the BD Santa Rita EOL Release site (AP-58).

In our previous progress report submitted to the NMOCD on August 3, 2010, it was noted that downgradient monitoring well (MW-4) and recovery well (RW-1) were installed and groundwater recovery activities were initiated at RW-1 on June 22, 2010. As of May 13, 2011, a total of 345,534 gallons (8,227 barrels) of groundwater has been recovered at the site. The most recent laboratory analytical results for the groundwater recovered from recovery well RW-1, with a chloride concentration of 870 mg/L, is attached. The groundwater recovered has resulted in the removal of at least 1,138 kg of chlorides. It should be noted that chloride concentrations in RW-1 have been steadily declining, as summarized in the Table 1, thus demonstrating the conservative estimate of chloride mass removed and improved groundwater conditions. A site map depicting the most recent chloride/TDS concentrations and the groundwater gradient is included as Figure 1.

To further evaluate the benefit of groundwater removal, ROC proposes to continue groundwater recovery operations until the end of 2011 at which time an updated progress report will be submitted to the NMOCD with recommendations for this site.

ROC is the service provider (agent) for the Blinbry Drinkard (BD) Saltwater Disposal (SWD) System and has no ownership of any portion of 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 concerning this progress report. If you have any questions, please contact Hack Conder at (575) 393-9174.

Sincerely,


Gilbert J. Van Deventer, PG, REM

cc: Hack Conder (ROC)
Buddy Hill (NMOCD-District 1)

Table 1
Summary of Groundwater Monitoring Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylene (mg/L)
MW-1	09/02/05	54.04	3280.28	4,480	7,600	<0.001	<0.001	<0.001	<0.001
	10/24/05	53.85	3280.47	7,170	16,400	<0.001	<0.001	<0.001	<0.001
	01/23/06	53.98	3280.34	7,450	14,300	<0.001	<0.001	<0.001	<0.001
	04/24/06	54.07	3280.25	7,100	14,300	<0.001	<0.001	<0.001	<0.001
	07/19/06	54.08	3280.24	6,180	14,000	<0.001	<0.001	<0.001	<0.001
	10/11/06	53.99	3280.33	2,100	4,560	<0.001	<0.001	<0.001	<0.001
	01/25/07	54.10	3280.22	2,740	4,560	<0.001	<0.001	<0.001	<0.001
	04/04/07	54.11	3280.21	2,610	5,720	<0.001	<0.001	<0.001	<0.001
	07/09/07	53.80	3280.52	363	1,470	<0.001	<0.001	<0.001	<0.003
	11/12/07	53.87	3280.45	356	1,398	<0.001	<0.001	<0.001	<0.003
	01/15/08	53.88	3280.44	408	1,499	<0.001	<0.001	<0.001	<0.003
	04/07/08	53.98	3280.34	420	1,460	<0.001	<0.001	<0.001	<0.003
	07/22/08	54.06	3280.26	440	1,460	<0.002	<0.002	<0.002	<0.006
	10/02/08	54.11	3280.21	392	1,390	<0.001	<0.001	<0.001	<0.003
	01/14/09	54.08	3280.24	352	1,250	<0.001	<0.001	<0.001	<0.003
	10/06/10	This source area well was plugged on this date prior to excavation.							
MW-2	11/12/07	54.55	3280.48	160	930	<0.001	<0.001	<0.001	<0.003
	01/15/08	54.57	3280.46	128	1,001	<0.001	<0.001	<0.001	<0.003
	04/07/08	54.65	3280.38	100	982	<0.001	<0.001	<0.001	<0.003
	07/22/08	54.74	3280.29	92	931	<0.002	<0.002	<0.002	<0.006
	10/02/08	54.81	3280.22	88	902	<0.001	<0.001	<0.001	<0.003
	01/14/09	54.78	3280.25	84	850	<0.001	<0.001	<0.001	<0.003
	04/14/09	54.82	3280.21	80	858	<0.001	<0.001	<0.001	<0.003
	07/13/09	54.79	3280.24	76	802	<0.001	<0.001	<0.001	<0.003
	10/08/09	54.79	3280.24	64	776	<0.001	<0.001	<0.001	<0.003
	01/06/10	54.83	3280.20	60	726	<0.001	<0.001	<0.001	<0.003
	04/09/10	54.85	3280.18	52	710	<0.001	<0.001	<0.001	<0.003
	07/09/10	55.10	3279.93	52	644	<0.001	<0.001	<0.001	<0.003
	10/06/10	55.05	3279.98	40	530	<0.001	<0.001	<0.001	<0.003
	02/11/11	54.82	3280.21	88	601	<0.001	<0.001	<0.001	<0.003
	04/12/11	54.92	3280.11	40	470	<0.001	<0.001	<0.001	<0.003

Continued on next page

Table 1
Summary of Groundwater Monitoring Results

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-3	11/12/07	53.70	3280.27	1,210	2,596	<0.001	<0.001	<0.001	<0.003
	01/15/08	53.69	3280.28	1,010	2,398	<0.001	<0.001	<0.001	<0.003
	04/07/08	53.73	3280.24	1,080	2,620	<0.001	<0.001	<0.001	<0.003
	07/22/08	53.82	3280.15	1,030	2,890	<0.002	<0.002	<0.002	<0.006
	10/02/08	53.86	3280.11	1,020	2,830	<0.001	<0.001	<0.001	<0.003
	01/14/09	53.83	3280.14	1,050	2,670	<0.001	<0.001	<0.001	<0.003
	04/14/09	53.90	3280.07	960	2,200	<0.001	<0.001	<0.001	<0.003
	07/13/09	53.88	3280.09	900	2,080	<0.001	<0.001	<0.001	<0.003
	10/08/09	53.85	3280.12	900	2,340	<0.001	<0.001	<0.001	<0.003
	01/06/10	54.04	3279.93	910	2,170	<0.001	<0.001	<0.001	<0.003
	04/09/10	53.94	3280.03	1,110	2,150	<0.001	<0.001	<0.001	<0.003
	07/09/10	54.94	3279.03	780	1,840	<0.001	<0.001	<0.001	<0.003
	10/06/10	54.98	3278.99	1,000	2,360	<0.001	<0.001	<0.001	<0.003
	02/11/11	54.38	3279.59	780	1,560	<0.001	<0.001	<0.001	<0.003
	04/12/11	55.03	3278.94	1,080	2,350	<0.001	<0.001	<0.001	<0.003
MW-4	07/13/09	52.28	3279.90	1,040	2,260	<0.001	<0.001	<0.001	<0.003
	10/08/09	52.23	3279.95	1,240	3,320	<0.001	<0.001	<0.001	<0.003
	01/06/10	52.23	3279.95	1,200	2,750	<0.001	<0.001	<0.001	<0.003
	04/09/10	52.24	3279.94	900	2,100	<0.001	<0.001	<0.001	<0.003
	07/09/10	52.76	3279.42	1,450	2,810	<0.001	<0.001	<0.001	<0.003
	10/06/10	52.83	3279.35	1,040	2,320	<0.001	<0.001	<0.001	<0.003
	02/11/11	52.22	3279.96	610	1,490	<0.001	<0.001	<0.001	<0.003
	04/12/11	52.92	3279.26	640	1,580	<0.001	<0.001	<0.001	<0.003
RW-1	07/13/09	53.02	3280.05	1,340	2,750	<0.001	<0.001	<0.001	<0.003
	10/08/09	53.01	3280.06	1,520	2,970	<0.001	<0.001	<0.001	<0.003
	01/06/10	53.04	3280.03	1,480	2,880	<0.001	<0.001	<0.001	<0.003
	04/09/10	53.06	3280.01	1,300	2,620	<0.001	<0.001	<0.001	<0.003
	06/23/10	---	---	1,820	---	---	---	---	---
	06/25/10	---	---	1,460	---	---	---	---	---
	06/28/10	---	---	1,640	---	---	---	---	---
	07/06/10	---	---	1,540	---	---	---	---	---
	07/09/10	---	---	1,260	2,750	<0.001	<0.001	<0.001	<0.003
	08/02/10	---	---	1,180	---	---	---	---	---
	09/09/10	---	---	920	---	---	---	---	---
	10/06/10	---	---	930	2,360	<0.001	<0.001	<0.001	<0.003
	10/18/10	---	---	920	---	---	---	---	---
	11/09/10	---	---	900	---	---	---	---	---
	02/11/11	---	---	850	1,800	<0.001	<0.001	<0.001	<0.003
	04/12/11	---	---	1,000	2,190	<0.001	<0.001	<0.001	<0.003
	04/20/11	---	---	870	---	---	---	---	---

WQCC Standards: 250 1,000 0.01 0.75 0.75 0.62

Total Dissolved Solids (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L)

Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.

BTOC - Below Top of Casing; AMSL - Above Mean Sea Level

--- Indicates depth not measured (access prevented by downhole pump) or parameter not analyzed.

MAP LEGEND

MW-2

3280.11

CL 40
TDS 470

Monitoring Well

Groundwater Elevation

Chloride, TDS, & BTEX
Concentrations in mg/L

B <0.001
T <0.001
E <0.001
X <0.003

BTEX Concentrations in all
monitoring wells are less than
the method detection limit for
each constituent as noted (mg/L).

0' 30'
Scale (Feet)

MW-2
3280.11
CL 40
TDS 470

MW-1
Plugged
02-27-09

Release
Point

Rice Poly Line

Tank Battery

Heater
Treater

Prevailing
Direction of
Groundwater Flow

Groundwater
Elevation Contour
(Dashed where inferred
due to effects of pumping)

RW-1

Pumping

CL 1000
TDS 2190

MW-3
3278.94
CL 1080
TDS 2350

MW-4
3279.26
CL 640
TDS 1580



BD Santa Rita EOL Release Site
T22S - R37E - Section 27, Unit A
RICE Operating Company

Water Table Elevation and
Chloride, TDS, & BTEX
Concentration Map
April 12, 2011

April 20, 2011

Hack Conder

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD SANTA RITA LEAK

Enclosed are the results of analyses for samples received by the laboratory on 04/15/11 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.

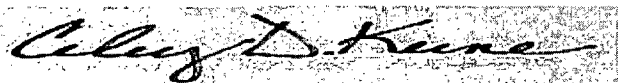
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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: 04/15/2011
 Reported: 04/20/2011
 Project Name: BD SANTA RITA LEAK
 Project Number: NONE GIVEN
 Project Location: T22S R37E SEC27 A-LEA CTY., NM

 Sampling Date: 04/12/2011
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: MONITOR WELL #2 (H100762-01)

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	04/15/2011	ND	0.057	114	0.0500	7.97	
Toluene*	<0.001	0.001	04/15/2011	ND	0.056	111	0.0500	8.51	
Ethylbenzene*	<0.001	0.001	04/15/2011	ND	0.056	113	0.0500	8.83	
Total Xylenes*	<0.003	0.003	04/15/2011	ND	0.166	111	0.150	8.83	

Surrogate: 4-Bromofluorobenzene (PIL) 88.6 % 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	40.0	4.00	04/18/2011	ND	104	104	100	0.00	

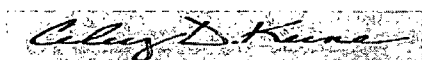
Sulfate 375.4		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	117	10.0	04/18/2011	ND	39.9	99.8	40.0	0.254	

TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	470	5.00	04/17/2011	ND				0.699	

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: 04/15/2011
 Reported: 04/20/2011
 Project Name: BD SANTA RITA LEAK
 Project Number: NONE GIVEN
 Project Location: T22S R37E SEC27 A-LEA CTY., NM

 Sampling Date: 04/12/2011
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Celey D. Keene

Sample ID: MONITOR WELL #3 (H100762-02)

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	04/15/2011	ND	0.057	114	0.0500	7.97	
Toluene*	<0.001	0.001	04/15/2011	ND	0.056	111	0.0500	8.51	
Ethylbenzene*	<0.001	0.001	04/15/2011	ND	0.056	113	0.0500	8.83	
Total Xylenes*	<0.003	0.003	04/15/2011	ND	0.166	111	0.150	8.83	

Surrogate: 4-Bromofluorobenzene (PIL) 93.1 % 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	1080	4.00	04/18/2011	ND	104	104	100	0.00	

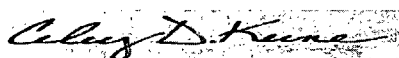
Sulfate 375.4		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	274	10.0	04/18/2011	ND	39.9	99.8	40.0	0.254	

TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	2350	5.00	04/17/2011	ND				0.699	

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: 04/15/2011
Reported: 04/20/2011
Project Name: BD SANTA RITA LEAK
Project Number: NONE GIVEN
Project Location: T22S R37E SEC27 A-LEA CTY., NM

Sampling Date: 04/12/2011
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: MONITOR WELL #4 (H100762-03)

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	04/15/2011	ND	0.057	114	0.0500	7.97	
Toluene*	<0.001	0.001	04/15/2011	ND	0.056	111	0.0500	8.51	
Ethylbenzene*	<0.001	0.001	04/15/2011	ND	0.056	113	0.0500	8.83	
Total Xylenes*	<0.003	0.003	04/15/2011	ND	0.166	111	0.150	8.83	

Surrogate: 4-Bromofluorobenzene (PIL) 92.7 % 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	640	4.00	04/18/2011	ND	104	104	100	0.00	

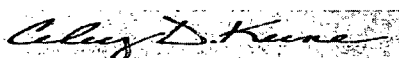
Sulfate 375.4		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	238	10.0	04/18/2011	ND	39.9	99.8	40.0	0.254	

TDS 160.1		mg/L		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	1580	5.00	04/17/2011	ND				0.699	

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: 04/15/2011
Reported: 04/20/2011
Project Name: BD SANTA RITA LEAK
Project Number: NONE GIVEN
Project Location: T22S R37E SEC27 A-LEA CTY., NM

Sampling Date: 04/12/2011
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: RECOVERY WELL #1 (H100762-04)

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	04/15/2011	ND	0.057	114	0.0500	7.97	
Toluene*	<0.001	0.001	04/15/2011	ND	0.056	111	0.0500	8.51	
Ethylbenzene*	<0.001	0.001	04/15/2011	ND	0.056	113	0.0500	8.83	
Total Xylenes*	<0.003	0.003	04/15/2011	ND	0.166	111	0.150	8.83	

Surrogate: 4-Bromofluorobenzene (PIL) 93.1 % 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	1000	4.00	04/18/2011	ND	104	104	100	0.00	

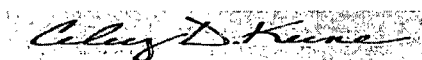
Sulfate 375.4		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	298	10.0	04/18/2011	ND	39.9	99.8	40.0	0.254	

TDS 160.1		mg/L	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	2190	5.00	04/17/2011	ND				0.699	

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Celey D. Keene, Lab Director/Quality Manager

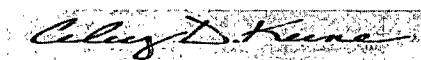
Notes and Definitions

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST
Circle or Specify Method No.)

Rozanne Johnson (575) 631-9310
rozanne@vzionet.com

[illegible]

incondor@riceswd.com
weinbarriet@rice-ecs.com
kionas@riceswd.com
rozanne@valornet.com