

AP -

71

ANNUAL MONITORING REPORT

YEAR(S):

2012



Infrastructure, buildings, environment, communications

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MAR 25 2013

Mr. Edward Hansen
New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, New Mexico 87505

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

ARCADIS U.S., Inc.
1004 North Big Spring Street
Suite 300
Midland
Texas 79701
Tel 432 687 5400
Fax 432 687 5401
www.arcadis-us.com

Certified Mail Receipt No. 7002 2410 0001 5813 4163

Subject: **2012 ANNUAL GROUNDWATER REPORT AND BTEX SUSPENSION REQUEST**
NMOCD Case # AP-71
Blinebry Drinkard (BD) H-35 Emergency Overflow Pit
T22S, R37E, Section. 35, Unit H, Lea County, New Mexico

Mr. Hansen:

On behalf of Rice Operating Company (ROC), ARCADIS U.S., Inc. (ARCADIS) respectfully submits the 2012 Annual Groundwater Report and BTEX Suspension Request for the BD H-35 Emergency Overflow Pit site located at the H-35 facility on the Blinebry-Drinkard Salt Water Disposal System.

One monitoring well was installed on December 21, 2005, following the approval of the Investigation and Characterization Work Plan on November 9, 2004.

The well was sampled quarterly in 2012 per NMOCD guidelines. The attached table summarizes the analytical results from groundwater samples collected from the monitor well at the site. ROC will continue to monitor through 2013.

BTEX has not been detected in groundwater samples collected from the monitoring well at this site at concentrations above WQCC standards since sampling began in 2006. To date, the monitoring well has been sampled for twenty-seven quarters. A table summarizing the analytical results is attached. As such, ROC requests sampling for BTEX be suspended for this well.

Based on low photo-ionization detector (PID) readings (less than 9 units) and laboratory analysis of gasoline and diesel range organics in soil, BTEX is not a compound of concern at this site in soil or groundwater. A summary of the soil analytical results and PID readings is attached.

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. 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 annual summary of groundwater monitoring information and BTEX suspension request. If you have any questions, do not hesitate to contact me or Hack Conder at (575) 393-9174.

Sincerely,

Environmental

Date:
March 21, 2013

Contact:
Sharon E. Hall

Phone:
432 687-5400

Email:
shall@arcadis-us.com

Our ref:
MT000846.0001

Mr. Edward Hansen
March 21, 2013

ARCADIS U.S., Inc.

Sharon E. Hall
Sharon E. Hall
Associate Vice President

Copies:
Hack Conder- ROC

Attachments: Data Summary Table
Monitor Well Location Figure
Most Recent Laboratory Results
Soil Data Table

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ROC BD H-35 SWD

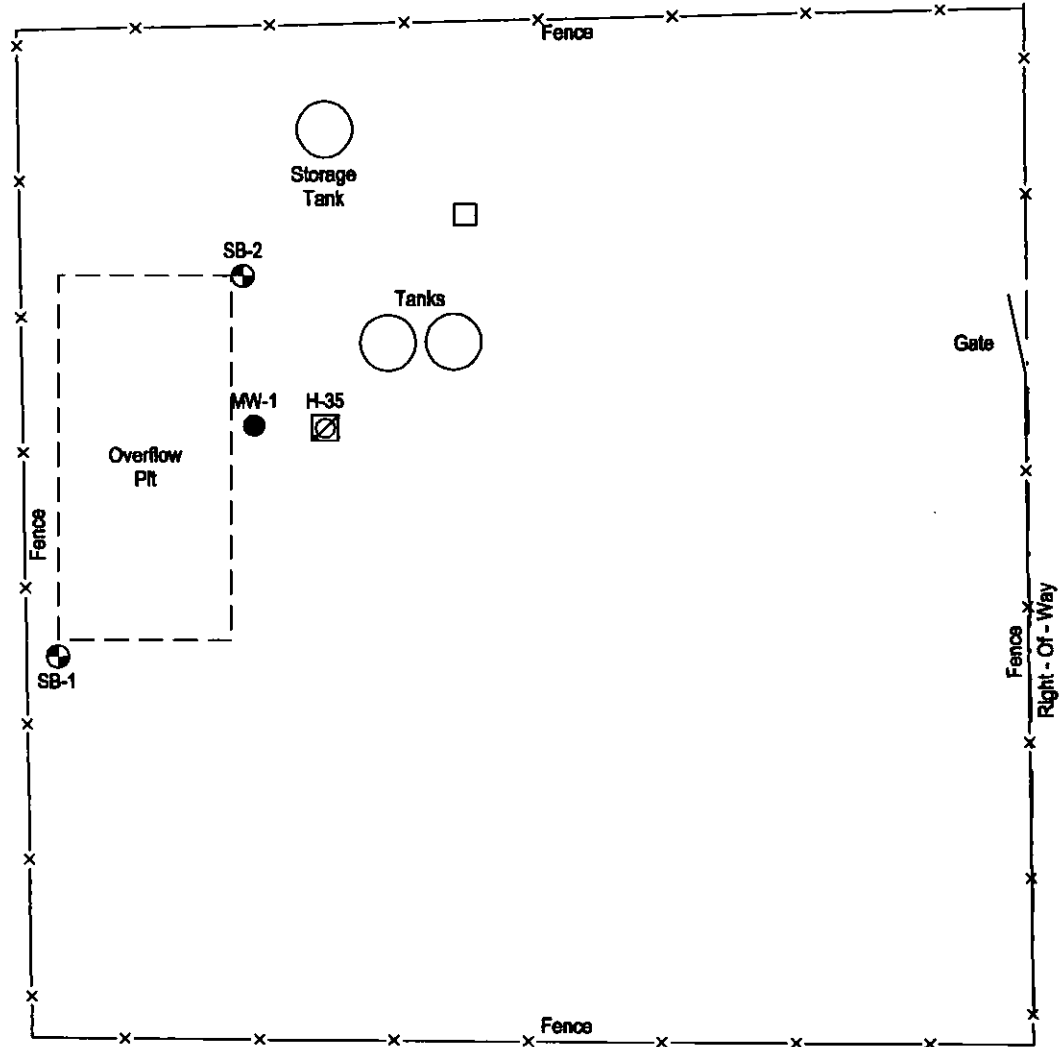
MW	Depth to Water (feet)	Total Depth (feet)	Well Volume (gallons)	Volume Purged (gallons)	Sample Date	CI	TDS	Benzene	Toluene	Ethylbenzene	Total Xylenes	Sulfate
1	43.64	57.20	8.8	30	1/4/2006	1880	4290	<0.001	<0.001	<0.001	<0.001	383
1	43.79	57.20	8.7	30	4/24/2006	2360	5380	<0.001	<0.001	<0.001	<0.001	405
1	43.92	57.20	8.6	35	7/19/2006	xxx	xxx	xxx	xxx	xxx	xxx	xxx
1	43.83	57.20	8.7	30	10/11/2006	2880	7460	<0.001	<0.001	<0.001	<0.001	561
1	44.10	57.16	8.5	30	1/25/2007	3240	5300	<0.001	<0.001	<0.001	<0.001	556
1	44.20	57.16	8.4	30	4/4/2007	3220	8680	<0.001	<0.001	<0.001	<0.001	381
1	43.99	57.16	8.6	30	8/24/2007	4749	12345	0.003	0.003	0.003	0.008	565
1	44.13	57.16	8.5	30	10/31/2007	3400	7028	<0.002	<0.002	<0.002	<0.006	499
1	44.22	57.20	8.4	30	1/15/2008	4800	9194	<0.001	<0.001	<0.001	<0.003	665
1	44.26	57.20	8.4	30	4/7/2008	4600	9350	<0.001	<0.001	<0.001	<0.003	888
1	44.34	57.20	8.4	30	7/22/2008	4400	9580	<0.002	<0.002	<0.002	<0.006	714
1	44.40	57.20	8.3	30	10/2/2008	3950	9350	<0.001	<0.001	<0.001	<0.003	675
1	44.47	57.20	8.3	30	1/14/2009	3650	7600	<0.001	<0.001	<0.001	<0.003	657
1	44.52	57.20	8.2	30	4/14/2009	3400	6550	<0.001	<0.001	<0.001	<0.003	629
1	44.56	57.23	8.2	30	7/13/2009	2380	4800	<0.001	<0.001	<0.001	<0.003	522
1	44.62	57.23	8.2	30	10/7/2009	3050	6900	<0.001	<0.001	<0.001	<0.003	519
1	44.66	57.23	8.2	30	1/13/2010	3050	6300	<0.001	<0.001	<0.001	<0.003	490
1	44.68	57.23	8.2	30	4/9/2010	2850	5480	<0.001	<0.001	<0.001	<0.003	618
1	44.60	57.23	8.2	30	7/9/2010	2650	4970	<0.001	<0.001	<0.001	<0.003	526
1	44.55	57.23	8.2	30	10/7/2010	2750	6430	<0.001	<0.001	<0.001	<0.003	512
1	44.76	57.24	8.1	30	1/13/2011	2650	5160	<0.001	<0.001	<0.001	<0.003	598
1	44.77	57.24	8.1	30	4/11/2011	3050	5480	<0.001	<0.001	<0.001	<0.003	567
1	44.86	57.24	8.0	30	7/13/2011	4050	6590	<0.001	<0.001	<0.001	<0.003	597
1	44.94	57.24	8.0	30	10/12/2011	3400	5890	<0.001	<0.001	<0.001	<0.003	607
1	44.99	57.24	8.0	30	1/17/2012	2470	5070	<0.001	<0.001	<0.001	<0.003	558
1	45.08	57.24	7.9	30	4/16/2012	2570	5100	<0.001	<0.001	<0.001	<0.003	437
1	45.10	57.24	7.9	30	7/12/2012	2430	4940	<0.001	<0.001	<0.001	<0.003	504
1	45.12	57.24	7.9	30	10/4/2012	2700	5380	<0.001	<0.001	<0.001	<0.003	615

All concentrations are milligrams per liter

CITY: MID-TEX. DIV: GROUP 6. ENV: DR: NC. LD: PC: R4: SH. TR: LVR: ON: OFF: REP: US: 31-04-2011
 C:\C:\ACTIVITY\WORK\PROJECTS\2008\20080403\20080403.dwg LAYOUT: 1. DATED: 2/27/2008 4:24 PM. ACADVER: 17.05 (LMS TECH) PAGES: 1/1. PLOTTER: 27/2008 4:24 PM. BY: CLAUDY, HERS

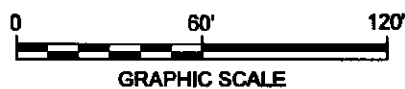
PROJECT NAME: BD H-35 EMERGENCY OVERFLOW PIT

DATE: 2/27/2008
 BY: CLAUDY, HERS



Explanation

- Monitor Well
- ⊕ Soil Boring
- ⊗ Salt Water Disposal Well



RICE OPERATING COMPANY
 LEA COUNTY, NEW MEXICO
BD H-35 EMERGENCY OVERFLOW PIT

MONITOR WELL AND SOIL BORING LOCATIONS



FIGURE
1



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

October 18, 2012

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

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/08/12 16:26.

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,

Caley 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:	10/08/2012	Sampling Date:	10/04/2012
Reported:	10/18/2012	Sampling Type:	Water
Project Name:	BD H-35 SWD	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T22S R37E SEC35 H-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H202447-01)

BTX 8021B		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.001	0.001	10/10/2012	ND	0.020	102	0.0200	2.06		
Toluene*	<0.001	0.001	10/10/2012	ND	0.019	93.8	0.0200	2.46		
Ethylbenzene*	<0.001	0.001	10/10/2012	ND	0.019	94.4	0.0200	2.43		
Total Xylenes*	<0.003	0.003	10/10/2012	ND	0.056	93.6	0.0600	2.53		

Surrogate: 4-Bromofluorobenzene (PIE) 112 % 89.5-126

Chloride, SM4500CI-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	2700	4.00	10/17/2012	ND	104	104	100	0.00		

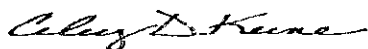
Sulfate 375.4		mg/L		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	615	10.0	10/12/2012	ND	16.7	83.6	20.0	14.4		

TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	5380	5.00	10/09/2012	ND	251	105	240	1.12		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

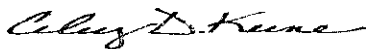
Notes and Definitions

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

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Table 1-Soil Field Analytical Results

Sample ID and Depth	PID Reading	Field Chloride (mg/kg)
Borehole 1 (SW) 1'	2	2,091
Borehole 1 (SW) 2'	1.1	1,957
Borehole 1 (SW) 3'	1.3	1,910
Borehole 1 (SW) 4'	1.2	2,129
Borehole 1 (SW) 10'	1.5	1,624
Borehole 1 (SW) 15'	2.3	3,155
Borehole 1 (SW) 20'	2.3	8,914
Borehole 1 (SW) 25'	2.4	3,799
Borehole 1 (SW) 30'	8.1	2,100
Borehole 1 (SW) 35'	1.3	2,233
Borehole 1 (SW) 40'	3.2	517
Borehole 2 (NE) 1'	8.8	1,211
Borehole 2 (NE) 5'	1.5	2,926
Borehole 2 (NE) 10'	2.5	1,611
Borehole 2 (NE) 15'	6.5	2,772
Borehole 2 (NE) 25'	3.0	5,334
Borehole 2 (NE) 30'	5.4	3,078
Borehole 2 (NE) 35'	1.0	2,562
Borehole 2 (NE) 40'	2	1,091

NA= Not Analyzed

Table 2-Soil Laboratory Analytical Results

Sample ID and Depth	GRO	DRO	Chlorides
Borehole 1 (SW) 35' bgs	NA	NA	2,559
Borehole 1 (SW) 40' bgs	<10.0	<10.0	976
Borehole 2 (NE) 40' bgs	<10.0	<10.0	1,260

NA= Not analyzed