

AP - 71

ANNUAL MONITORING REPORT

YEAR(S):

2007



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

Subject: ⁷
2006 MONITOR WELL REPORT/SAMPLING SUMMARY
BD H-35 Emergency Overflow Pit
SEC. 35, T22S, R37E
NMOCD CASE # 1R0216 Now AP-71

Dear Mr. Hansen:

On behalf of Rice Operating Company (ROC), ARCADIS G&M, Inc. (ARCADIS) respectfully submits the 2007 Monitor Well Report for the BD H-35 Emergency Overflow Pit site located at the H-35 facility on the Blinbry-Drinkard Salt Water Disposal System.

One monitoring well was installed on December 21, 2005. A water level was recorded at 43.83 feet below measuring point.

The well was sampled quarterly in 2007 per NMOCD guidelines. The attached table summarizes the analytical results from groundwater samples collected from the monitor well at the site. 2007 groundwater laboratory reports are also attached.

A Stage 1 Abatement Plan was submitted to NMOCD and is pending administratively complete approval from NMOCD.

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 Partners, who provide all operating capital on a percentage ownership/usage basis.

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions, do not hesitate to contact me.

Part of a bigger picture

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

Environmental

Date:
28 February 2008

Contact:
Sharon E. Hall

Phone:
432 687-5400

Email:
shall@arcadis-us.com

Our ref:
MT000846.0001

ARCADIS

Mr. Ed Hansen
28 February 2008

Sincerely,
ARCADIS G&M, Inc.

Sharon E. Haef

Site Evaluation Department Manager

Copies:

Kristin Farris Pope- ROC (2 copies)

Attachments:

Data Summary Table

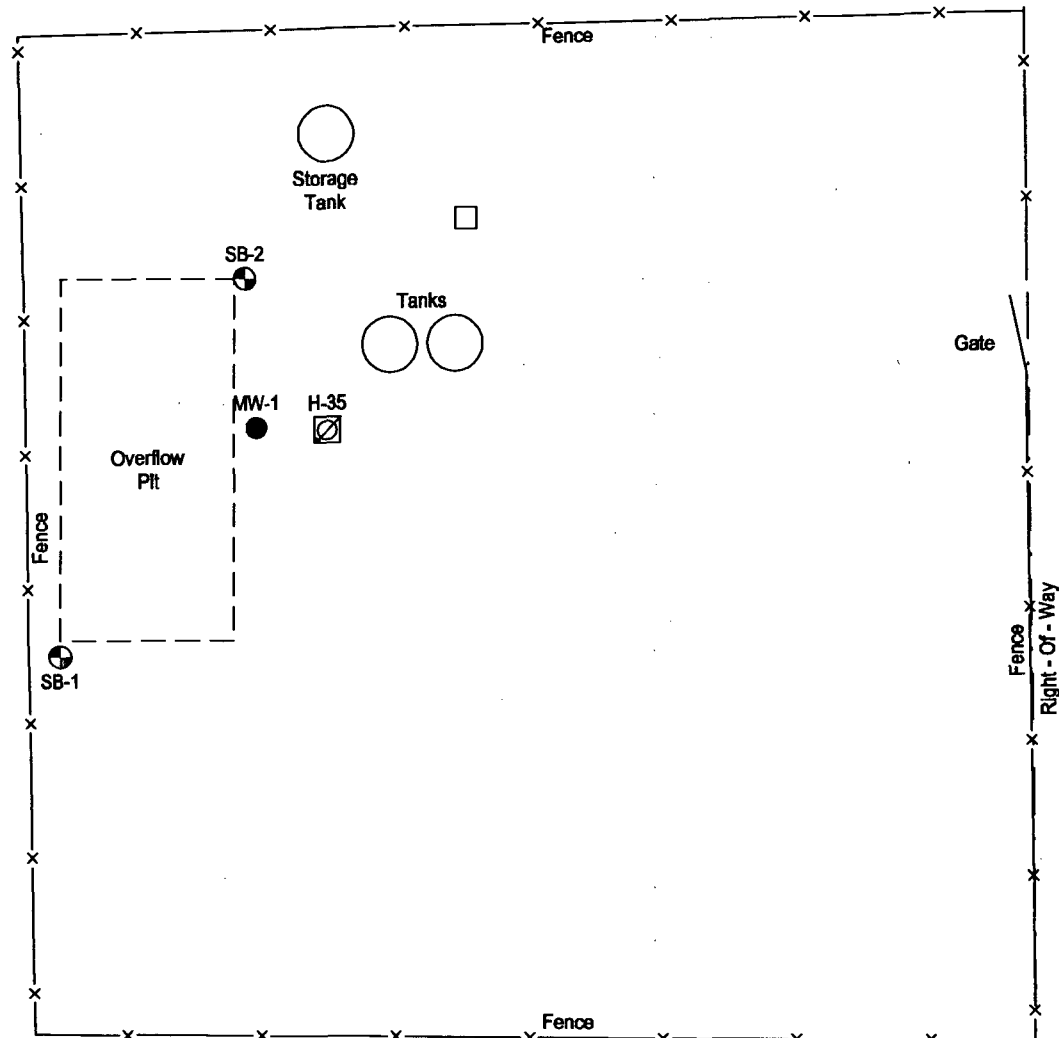
Monitor Well Location Figure

Laboratory Analysis




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PROJECT NAME: BD H-35 EMERGENCY OVERFLOW PIT

XREFS:	IMAGES:
	32103e1.0
	32103e2.0
	32103e202.0



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



ARCADIS

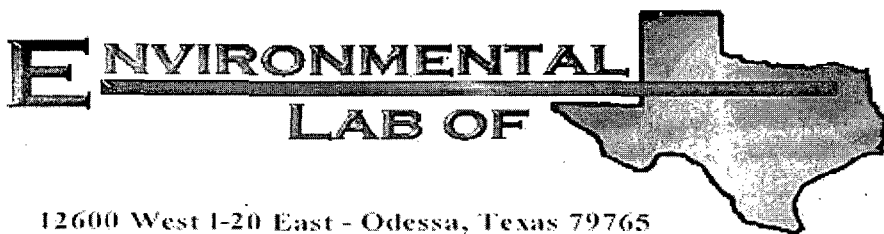
FIGURE

1

ROC BD H-35 SWD
MW-1

ROC BD H-35 SWD
MW

	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate
1	43.64	57.2	8.8	30	1/4/2006	1880	4290	<0.001	<0.001	<0.001	<0.001	383
1	43.79	57.2	8.7	30	4/24/2006	2360	5380	<0.001	<0.001	<0.001	<0.001	405
1	43.92	57.2	8.6	35	7/19/2006							
1	43.83	57.2	8.7	30	10/11/2006	2880	7460	<0.001	<0.001	<0.001	<0.001	561
1	44.1	57.16	8.5	30	1/25/2007	3240	5300	<0.001	<0.001	<0.001	<0.001	556
1	44.2	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



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD H-35 SWD

Project Number: None Given

Location: T22S R37E Sec. 35 H- Lea County, NM

Lab Order Number: 7A29014

Report Date: 02/02/07

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	7A29014-01	Water	01/25/07 13:00	01-29-2007 10:20

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7A29014-01) Water									
Benzene	ND	0.00100	mg/L	1	EA73103	01/31/07	01/31/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		90.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Monitor Well #1 (7A29014-01) Water									
Total Alkalinity	122	2.00	mg/L	1	EA73003	01/30/07	01/30/07	EPA 310.1M	
Chloride	3240	50.0	"	100	EA73105	01/31/07	02/01/07	EPA 300.0	
Total Dissolved Solids	5300	10.0	"	1	EB70206	01/31/07	02/01/07	EPA 160.1	
Sulfate	556	50.0	"	100	EA73105	02/01/07	02/01/07	EPA 300.0	

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Page 3 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (7A29014-01) Water									
Calcium	711	20.2	mg/L	250	EA73006	01/30/07	01/31/07	EPA 6010B	
Magnesium	409	9.00	"	"	"	"	"	"	
Potassium	35.7	0.600	"	10	"	"	"	"	
Sodium	767	21.5	"	500	"	"	"	"	

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Page 4 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA73103 - EPA 5030C (GC)

Blank (EA73103-BLK1)

Prepared: 01/31/07 Analyzed: 02/01/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	39.2		ug/l	40.0		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.8	80-120			

LCS (EA73103-BS1)

Prepared: 01/31/07 Analyzed: 02/01/07

Benzene	0.0535	0.00100	mg/L	0.0500		107	80-120			
Toluene	0.0516	0.00100	"	0.0500		103	80-120			
Ethylbenzene	0.0473	0.00100	"	0.0500		94.6	80-120			
Xylene (p/m)	0.0912	0.00100	"	0.100		91.2	80-120			
Xylene (o)	0.0425	0.00100	"	0.0500		85.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	47.3		ug/l	40.0		118	80-120			
Surrogate: 4-Bromofluorobenzene	45.6		"	40.0		114	80-120			

Calibration Check (EA73103-CCV1)

Prepared: 01/31/07 Analyzed: 02/02/07

Benzene	41.7		ug/l	50.0		83.4	80-120			
Toluene	43.6		"	50.0		87.2	80-120			
Ethylbenzene	48.1		"	50.0		96.2	80-120			
Xylene (p/m)	86.1		"	100		86.1	80-120			
Xylene (o)	42.0		"	50.0		84.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.7		"	40.0		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.9		"	40.0		89.8	80-120			

Matrix Spike (EA73103-MS1)

Source: 7A29015-03

Prepared: 01/31/07 Analyzed: 02/01/07

Benzene	0.0446	0.00100	mg/L	0.0500	ND	89.2	80-120			
Toluene	0.0477	0.00100	"	0.0500	ND	95.4	80-120			
Ethylbenzene	0.0492	0.00100	"	0.0500	ND	98.4	80-120			
Xylene (p/m)	0.0953	0.00100	"	0.100	ND	95.3	80-120			
Xylene (o)	0.0427	0.00100	"	0.0500	ND	85.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.7		ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	46.0		"	40.0		115	80-120			

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA73103 - EPA 5030C (GC)

Matrix Spike Dup (EA73103-MSD1)

Source: 7A29015-03

Prepared: 01/31/07 Analyzed: 02/01/07

Benzene	0.0456	0.00100	mg/L	0.0500	ND	91.2	80-120	2.22	20	
Toluene	0.0477	0.00100	"	0.0500	ND	95.4	80-120	0.00	20	
Ethylbenzene	0.0467	0.00100	"	0.0500	ND	93.4	80-120	5.21	20	
Xylene (p/m)	0.0930	0.00100	"	0.100	ND	93.0	80-120	2.44	20	
Xylene (o)	0.0407	0.00100	"	0.0500	ND	81.4	80-120	4.80	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	42.2		ug/l	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	39.1		"	40.0		97.8	80-120			

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA73003 - General Preparation (WetChem)

Blank (EA73003-BLK1)

Prepared & Analyzed: 01/30/07

Total Alkalinity ND 2.00 mg/L

LCS (EA73003-BS1)

Prepared & Analyzed: 01/30/07

Bicarbonate Alkalinity 184 2.00 mg/L 200 92.0 85-115

Duplicate (EA73003-DUP1)

Source: 7A29013-01

Prepared & Analyzed: 01/30/07

Total Alkalinity 254 2.00 mg/L 256 0.784 20

Reference (EA73003-SRM1)

Prepared & Analyzed: 01/30/07

Total Alkalinity 246 mg/L 250 98.4 90-110

Batch EA73105 - General Preparation (WetChem)

Blank (EA73105-BLK1)

Prepared & Analyzed: 01/31/07

Chloride ND 0.500 mg/L

Sulfate 0.457 0.500 "

B, J

LCS (EA73105-BS1)

Prepared & Analyzed: 01/31/07

Chloride 10.5 0.500 mg/L 10.0 105 80-120

Sulfate 11.0 0.500 " 10.0 110 80-120

Calibration Check (EA73105-CCV1)

Prepared & Analyzed: 01/31/07

Chloride 11.1 mg/L 10.0 111 80-120

Sulfate 11.7 " 10.0 117 80-120

Duplicate (EA73105-DUP1)

Source: 7A31002-02

Prepared & Analyzed: 01/31/07

Chloride 6300 100 mg/L 6340 0.633 20

Sulfate 190 100 " 191 0.525 20

Environmental Lab of Texas

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA73105 - General Preparation (WetChem)

Matrix Spike (EA73105-MS1) Source: 7A31002-02 Prepared: 01/31/07 Analyzed: 02/01/07

Sulfate	2240	100	mg/L	2000	191	102	80-120			
Chloride	8430	100	"	2000	6340	104	80-120			

Batch EB70206 - Filtration Preparation

Blank (EB70206-BLK1) Prepared: 01/31/07 Analyzed: 02/01/07

Total Dissolved Solids	ND	10.0	mg/L							
------------------------	----	------	------	--	--	--	--	--	--	--

Duplicate (EB70206-DUP1) Source: 7A29012-01 Prepared: 01/31/07 Analyzed: 02/01/07

Total Dissolved Solids	1170	10.0	mg/L		1120			4.37	20	
------------------------	------	------	------	--	------	--	--	------	----	--

Environmental Lab of Texas

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EA73006 - 6010B/No Digestion

Blank (EA73006-BLK1)

Prepared: 01/30/07 Analyzed: 01/31/07

Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							

Calibration Check (EA73006-CCV1)

Prepared: 01/30/07 Analyzed: 01/31/07

Calcium	2.05		mg/L	2.00		102	85-115			
Magnesium	2.13		"	2.00		106	85-115			
Potassium	1.81		"	2.00		90.5	85-115			
Sodium	1.90		"	2.00		95.0	85-115			

Duplicate (EA73006-DUP1)

Source: 7A29012-01

Prepared: 01/30/07 Analyzed: 01/31/07

Calcium	104	4.05	mg/L		102			1.94	20	
Magnesium	44.4	0.360	"		46.5			4.62	20	
Potassium	9.46	0.600	"		10.0			5.55	20	
Sodium	234	2.15	"		239			2.11	20	

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 9 of 10

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
B Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

2/2/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 10 of 10

12600 West I-20 East
Odessa, Texas 79765
Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Kristin Farris Pope kpoep@riceswd.com
Company Name: RICE Operating Company
Company Address: 122 W. Taylor Street
City/State/Zip: Hobbs, New Mexico 88240
Telephone No: (505) 393-9174
Sampler Signature: Rozanne Johnson (505) 631-9310
Project Name: BD H-35 SWD
Project #:
Project Loc: T22S R37E Sec35 H ~ Lea County New Mexico
PO #:
Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Fax No: (505) 397-1471
e-mail: rozanne@valornet.com

LAB # (lab use only)	FIELD CODE	Monitor Well #1	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filled	Total # of Containers	Preservation & # of Containers										Matrix	Analyze For:
									Ice	HNO ₃	HCl (2 40 ml glass vials)	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None (1) 1 Liter HDPE	Other (Specify)	DV-Drinking Water SL-Sediment	GV - Groundwater Se-Soil/Solid		
01					1/25/2007	13:00		3	X		2			1			GW	TPH: 418.1 8015M 8015B TPH: TX 1005 TX 1006 Cations (Ca, Mg, Na, K) Anions (Cl, SO ₄ , Alkalinity) SAR / ESP / CEC Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles (BTEX-N 8260) Semivolatiles BTEX 8021B/6030 RCI N.O.R.M. Total Dissolved Solids RUSH TAT (Pre-Schedule) 24, 48, 72 hrs Standard TAT		

Special Instructions:
Please email to: kpoep@riceswd.com mfranks@riceswd.com rozanne@valornet.com

Received by: *Rozanne Johnson* Date: 1-29-07 Time: 6:00
Relinquished by: *Rozanne Johnson* Date: 1-29-07 Time: 10:20
Received by: *Rozanne Johnson* Date: 1-29-07 Time: 10:20
Relinquished by: *Rozanne Johnson* Date: 1-29-07 Time: 10:20

Laboratory Comments:
Sample Containers Intact? ☒
VOCs Free of Headspace? ☒
Labels on container(s) ☒
Custody seals on container(s) ☒
Custody seals on cooler(s) ☒
Sample Hand Delivered by Sample Client Rep. ☒
by Courier? ☐ DHL ☐ FedEx ☐ Lone Star
Temperature Upon Receipt: -0.9 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Date: 1/29/07 Time: 10:20
 Lab ID #: 7229014
 Initials: ck

Sample Receipt Checklist

Client Initials

1 Temperature of container/ cooler?	Yes	No	-0.5 °C	
2 Shipping container in good condition?	<u>Yes</u>	No		
3 Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
5 Chain of Custody present?	<u>Yes</u>	No		
6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
11 Containers supplied by ELOT?	<u>Yes</u>	No		
12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
13 Samples properly preserved?	<u>Yes</u>	No	See Below	
14 Sample bottles intact?	<u>Yes</u>	No		
15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
19 Subcontract of sample(s)?	Yes	No	Not Applicable	
20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

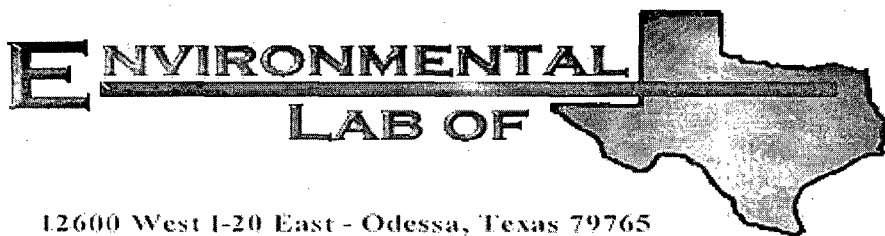
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD H-35 SWD

Project Number: None Given

Location: T22S R37E Sec35 H ~ Lea County New Mexico

Lab Order Number: 7D05012

Report Date: 04/13/07

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well # 1	7D05012-01	Water	04/04/07 11:40	04-05-2007 13:20

Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D05012-01) Water									
Benzene	ND	0.00100	mg/L	1	ED70905	04/09/07	04/09/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		111 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.8 %	80-120		"	"	"	"	

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D05012-01) Water									
Total Alkalinity	170	2.00	mg/L	1	ED70509	04/05/07	04/06/07	EPA 310.1M	
Chloride	3220	50.0	"	100	ED71003	04/10/07	04/10/07	EPA 300.0	
Total Dissolved Solids	8680	10.0	"	1	ED71008	04/05/07	04/06/07	EPA 160.1	
Sulfate	381	50.0	"	100	ED71003	04/10/07	04/10/07	EPA 300.0	

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well # 1 (7D05012-01) Water									
Calcium	710	20.2	mg/L	250	ED71313	04/13/07	04/13/07	EPA 6010B	
Magnesium	392	9.00	"	"	"	"	"	"	
Potassium	36.5	0.600	"	10	"	"	"	"	
Sodium	897	10.8	"	250	"	"	"	"	

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Rice Operating Co.
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Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ED70905 - EPA 5030C (GC)

Blank (ED70905-BLK1)

Prepared & Analyzed: 04/09/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	53.2		ug/l	50.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	44.2		"	50.0		88.4	80-120			

LCS (ED70905-BS1)

Prepared & Analyzed: 04/09/07

Benzene	0.0494	0.00100	mg/L	0.0500		98.8	80-120			
Toluene	0.0471	0.00100	"	0.0500		94.2	80-120			
Ethylbenzene	0.0476	0.00100	"	0.0500		95.2	80-120			
Xylene (p/m)	0.0904	0.00100	"	0.100		90.4	80-120			
Xylene (o)	0.0502	0.00100	"	0.0500		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	52.9		ug/l	50.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	45.5		"	50.0		91.0	80-120			

Calibration Check (ED70905-CCV1)

Prepared: 04/09/07 Analyzed: 04/10/07

Benzene	51.6		ug/l	50.0		103	80-120			
Toluene	49.4		"	50.0		98.8	80-120			
Ethylbenzene	48.1		"	50.0		96.2	80-120			
Xylene (p/m)	86.7		"	100		86.7	80-120			
Xylene (o)	50.0		"	50.0		100	80-120			
Surrogate: a,a,a-Trifluorotoluene	54.6		"	50.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	44.8		"	50.0		89.6	80-120			

Matrix Spike (ED70905-MS1)

Source: 7D05009-01

Prepared & Analyzed: 04/09/07

Benzene	0.0510	0.00100	mg/L	0.0500	ND	102	80-120			
Toluene	0.0492	0.00100	"	0.0500	ND	98.4	80-120			
Ethylbenzene	0.0480	0.00100	"	0.0500	ND	96.0	80-120			
Xylene (p/m)	0.0886	0.00100	"	0.100	ND	88.6	80-120			
Xylene (o)	0.0503	0.00100	"	0.0500	ND	101	80-120			
Surrogate: a,a,a-Trifluorotoluene	53.9		ug/l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	43.3		"	50.0		86.6	80-120			

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ED70905 - EPA 5030C (GC)

Matrix Spike Dup (ED70905-MSD1)

Source: 7D05009-01

Prepared & Analyzed: 04/09/07

Benzene	0.0496	0.00100	mg/L	0.0500	ND	99.2	80-120	2.78	20	
Toluene	0.0474	0.00100	"	0.0500	ND	94.8	80-120	3.73	20	
Ethylbenzene	0.0470	0.00100	"	0.0500	ND	94.0	80-120	2.11	20	
Xylene (p/m)	0.0859	0.00100	"	0.100	ND	85.9	80-120	3.09	20	
Xylene (o)	0.0485	0.00100	"	0.0500	ND	97.0	80-120	4.04	20	
Surrogate: a,a,a-Trifluorotoluene	54.1		ug/l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	42.9		"	50.0		85.8	80-120			

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED70509 - General Preparation (WetChem)										
Blank (ED70509-BLK1) Prepared: 04/05/07 Analyzed: 04/06/07										
Total Alkalinity	ND	2.00	mg/L							
LCS (ED70509-BS1) Prepared: 04/05/07 Analyzed: 04/06/07										
Bicarbonate Alkalinity	178	2.00	mg/L	200		89.0	85-115			
Reference (ED70509-SRM1) Prepared: 04/05/07 Analyzed: 04/06/07										
Total Alkalinity	246		mg/L	250		98.4	90-110			
Batch ED71003 - General Preparation (WetChem)										
Blank (ED71003-BLK1) Prepared & Analyzed: 04/10/07										
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (ED71003-BS1) Prepared & Analyzed: 04/10/07										
Chloride	12.0	0.500	mg/L	10.0		120	80-120			
Sulfate	12.0	0.500	"	10.0		120	80-120			
Calibration Check (ED71003-CCV1) Prepared & Analyzed: 04/10/07										
Chloride	9.00		mg/L	10.0		90.0	80-120			
Sulfate	9.76		"	10.0		97.6	80-120			
Duplicate (ED71003-DUP1) Source: 7D05009-01 Prepared & Analyzed: 04/10/07										
Sulfate	254	25.0	mg/L		287			12.2	20	
Chloride	1590	25.0	"		1640			3.10	20	
Duplicate (ED71003-DUP2) Source: 7D05014-05 Prepared & Analyzed: 04/10/07										
Sulfate	1860	50.0	mg/L		1860			0.00	20	
Chloride	1390	50.0	"		1410			1.43	20	

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ED71003 - General Preparation (WetChem)

Matrix Spike (ED71003-MS1) Source: 7D05009-01 Prepared & Analyzed: 04/10/07

Sulfate	721	25.0	mg/L	500	287	86.8	80-120
Chloride	2080	25.0	"	500	1640	88.0	80-120

Matrix Spike (ED71003-MS2) Source: 7D05014-05 Prepared & Analyzed: 04/10/07

Sulfate	2840	50.0	mg/L	1000	1860	98.0	80-120
Chloride	2480	50.0	"	1000	1410	107	80-120

Batch ED71008 - General Preparation (WetChem)

Blank (ED71008-BLK1) Prepared: 04/05/07 Analyzed: 04/06/07

Total Dissolved Solids	ND	10.0	mg/L
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Duplicate (ED71008-DUP1) Source: 7D05009-01 Prepared: 04/05/07 Analyzed: 04/06/07

Total Dissolved Solids	3700	10.0	mg/L	3070	18.6	20
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch ED71313 - 6010B/No Digestion

Blank (ED71313-BLK1)

Prepared & Analyzed: 04/13/07

Calcium	ND	0.0810	mg/L
Magnesium	ND	0.0360	"
Potassium	ND	0.0600	"
Sodium	ND	0.0430	"

Calibration Check (ED71313-CCV1)

Prepared & Analyzed: 04/13/07

Calcium	2.00		mg/L	2.00	100	85-115
Magnesium	2.01		"	2.00	100	85-115
Potassium	1.93		"	2.00	96.5	85-115
Sodium	2.07		"	2.00	104	85-115

Duplicate (ED71313-DUP1)

Source: 7D05009-01

Prepared & Analyzed: 04/13/07

Calcium	329	8.10	mg/L	329		0.00	20
Magnesium	134	1.80	"	134		0.00	20
Potassium	14.2	0.600	"	14.0		1.42	20
Sodium	628	4.30	"	629		0.159	20

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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: BD H-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: 

Date: 4/13/2007

Brent Barron, Laboratory Director/Corp. Technical Director
Celey D. Keene, Org. Tech Director
Raland K. Tuttle, Laboratory Consultant

James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

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Environmental Lab of Texas

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Environmental Lab of Texas
Variance/ Corrective Action Report- Sample Log-In

Client: Pire
Date/ Time: 4-5-07 1:20
ID #: 7005012
Initials: GL

Sample Receipt Checklist

				Client Initials
1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>20</u> °C
2	Shipping container in good condition?	<u>Yes</u>	No	
3	Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present
4	Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present
5	Chain of Custody present?	<u>Yes</u>	No	
6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
8	Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid
9	Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable
10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
11	Containers supplied by ELOT?	<u>Yes</u>	No	
12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
13	Samples properly preserved?	<u>Yes</u>	No	See Below
14	Sample bottles intact?	<u>Yes</u>	No	
15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
19	Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable
20	VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event



ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1474

Receiving Date: 08/29/07
Reporting Date: 09/04/07
Project Number: NOT GIVEN
Project Name: BD H-35 SWD
Project Location: T22S R37E SEC35 H ~ LEA CO.; NM

Sampling Date: 08/24/07
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		08/30/07	08/30/07	08/30/07	08/30/07
H13193-1	MONITOR WELL #1	0.003	0.003	0.003	0.008
Quality Control		0.086	0.082	0.082	0.252
True Value QC		0.100	0.100	0.100	0.300
% Recovery		86.0	82.3	82.4	84.0
Relative Percent Difference		6.0	2.6	1.8	0.7

METHOD: EPA SW-846 8021 B


Chemist


Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim 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 waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. **H13193B RICE** shall be liable 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 08/29/07
Reporting Date: 09/05/07
Project Owner: NOT GIVEN
Project Name: BD H-35 SWD
Project Location: T22S R37E SEC35 H-LEA COUNTY, NM

Sampling Date: 08/24/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		09/04/07	09/04/07	09/04/07	09/05/07	08/30/07	09/04/07
H13193-1	MONITOR WELL #1	1220	1051	508	21.0	14,100	120
Quality Control		NR	50.6	53.2	1.87	1423	NR
True Value QC		NR	50.0	50.0	2.00	1413	NR
% Recovery		NR	101	106	93.6	101	NR
Relative Percent Difference		NR	< 0.1	3.1	2.1	< 0.1	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	09/04/07	09/05/07	09/04/07	09/04/07	08/30/07	09/04/07
H13193-1	4,749	565	0	146	6.89	12,345
Quality Control	500	24.0	NR	1025	6.97	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	96.1	NR	102	99.6	NR
Relative Percent Difference	< 0.1	8.2	NR	6.1	0.1	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Jose S. Moreno
Chemist

09-05-07
Date

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ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 11/01/07
Reporting Date: 11/02/07
Project Number: NOT GIVEN
Project Name: BD H-35 SWD
Project Location: T22S R37E SEC35 H-LEA COUNTY, NM

Sampling Date: 10/31/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: KS
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (uS/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		11/02/07	11/02/07	11/02/07	11/02/07	11/02/07	11/02/07
H13626-1	MONITOR WELL #1	1,125	632	339	24.8	11,140	144
Quality Control		NR	49.2	52.4	3.10	1,396	NR
True Value QC		NR	50.0	50.0	3.00	1,404	NR
% Recovery		NR	98.4	105	103	99.4	NR
Relative Percent Difference		NR	< 0.1	1.5	12.7	0.7	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	11/01/07	11/02/07	11/02/07	11/02/07	11/02/07	11/01/07
H13626-1	3,400	499	0	176	7.16	7,028
Quality Control	490	25.1	NR	1000	6.99	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	98.0	101	NR	100	99.9	NR
Relative Percent Difference	2.0	6.8	NR	< 0.1	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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Chemist

Date

11-02-07

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim 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 waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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

ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

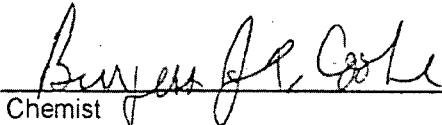
Receiving Date: 11/01/07
Reporting Date: 11/06/07
Project Number: NOT GIVEN
Project Name: BD H-35 SWD

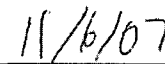
Project Location: T22S R37E SEC35 H-LEA COUNTY, NM

Sampling Date: 10/31/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: KS
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		11/01/07	11/01/07	11/01/07	11/01/07
H13626-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
Quality Control		0.104	0.097	0.099	0.308
True Value QC		0.100	0.100	0.100	0.300
% Recovery		104	96.6	99.4	103
Relative Percent Difference		0.9	5.0	2.6	0.9

METHOD: EPA SW-846 8260


Chemist


Date

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