

AP - 27

# ANNUAL MONITORING REPORT

YEAR(S):  
2007



**Whole Earth Environmental, Inc.**

2103 Arbor Cove  
Katy, Tx. 77494  
281.394.2050  
whearth@msn.com

January 23, 2008

NMOCD  
1220 South St. Francis Drive  
Sante Fe, NM 87505

Attn: Edward Hansen

<sup>7</sup>  
**Re: 2007 Monitor Well Report / Sampling Summary**  
**Junction E-15, EME SWD System**  
**Unit "E", Sec. 15, T-22-S, R-37 E**  
**NMOCD Case # AP-27**

Dear Mr. Hansen:

Enclosed, please find the 2007 Annual Ground Water Monitoring Report for the E-15 site within the BD Salt Water Disposal System. The report includes the following information:

- Summary Tables of all laboratory results and depths to ground water
- Plat map of well locations
- Laboratory analytical reports

Overall, the water quality within the monitor wells continues to improve with chloride concentrations having dropped by about 50% in the wells located within the removal system's radius of influence.

Thank you again for your interest in this project; if you've any questions or comments, please do not hesitate to get in touch with me or Kristin Pope at 505.393.9174

Warmest personal regards,

Mike Griffin  
President  
Whole Earth Environmental, Inc.

RECEIVED  
2008 APR 22 PM 3 24



## **Executive Summary**

### **Location**

The site is located approximately five miles southeast of Eunice, New Mexico on fee land. The primary land use of the area is for the grazing of cattle. The legal description of the site is Unit E, Section 15, Township 22S, Range 37E.

### **Site History**

The surface soils were initially remediated in October, 2001 with groundwater delineation investigations beginning in late December. A total of eight borings were advanced consisting of three "dry holes" a recovery well and four monitor wells. The initial recovery well operated sporadically for two years but due to low recharge and extremely silty conditions within the wellbore, the well was plugged in the second quarter and a new recovery well (previously, MW-2) was brought on line.

The second solar powered recovery well initially produced up to sixty gallons per minute for sustained periods of up to two weeks. The system has shown recent signs of silting in – not only reducing the discharge volumes by 20-30 gallons per hour but also requiring that the pumps be changed out with increasing frequency.

The effect in groundwater chloride concentrations has been dramatic within those wells located within the recovery system's radius of influence. The chloride concentrations within MW-1 have been reduced from over 800 ppm to 430. The second recovery well's chloride concentrations went from a high of 42,500 to 9,500 ppm in the last measurement.

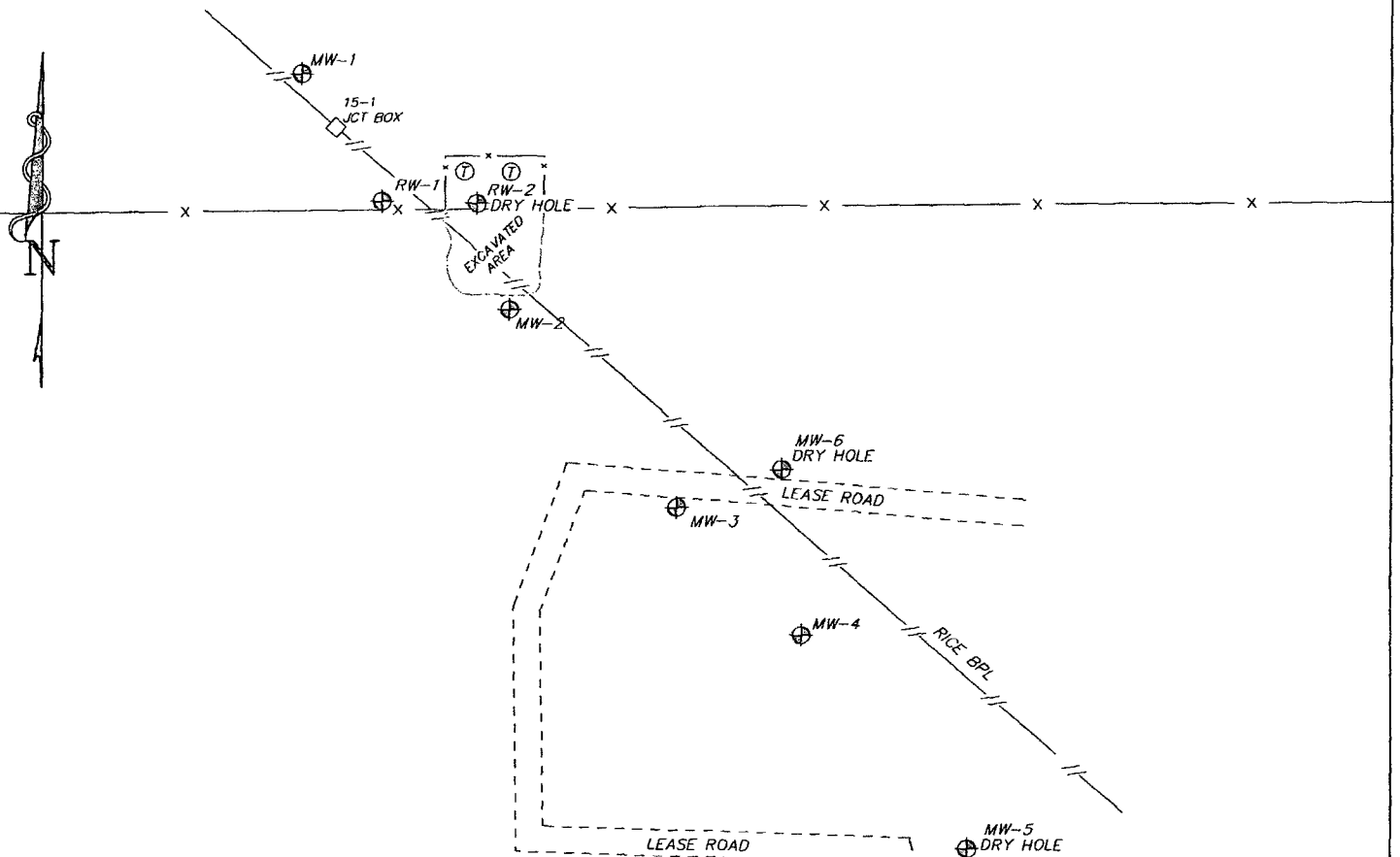
The chloride concentrations within the two outlying monitor wells, unaffected by active pumping, have remained the same over the five year monitoring span.



## **Exhibit Index**

1. Site Survey
2. Satellite View of Location Showing Well Locations and Chloride Concentrations
3. Well Plugging Approval Letter

SECTION 15, TOWNSHIP 22 SOUTH, RANGE 37 EAST, N.M.P.M.,  
LEA COUNTY, DETAIL SHEET NEW MEXICO.



NOTE:  
ELEVATIONS ARE ON BLACK MARK  
ON NORTH SIDE OF PVC CASING.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV. PVC	ELEV. GRND
MW-1	509838.023	904417.717	N 32°23'46.1"	W 103°09'25.3"	3401.26'	
MW-2	509432.576	904769.800	N 32°23'42.0"	W 103°09'21.2"	3401.95'	
MW-3	509092.570	905053.734	N 32°23'38.6"	W 103°09'18.0"	3402.45'	
MW-4	508872.816	905265.018	N 32°23'36.4"	W 103°09'15.5"	3402.02'	
MW-5	508505.958	905546.253	N 32°23'32.8"	W 103°09'12.3"		3400.18'
MW-6	509156.920	905230.789	N 32°23'39.2"	W 103°09'15.9"		3398.25'
RW-1	509619.970	904554.360	N 32°23'43.9"	W 103°09'23.7"	3401.34'	
RW-2	509616.116	904714.514	N 32°23'43.8"	W 103°09'21.8"	CONC PAD - 3399.13'	

300 0 300 600 FEET

SCALE: 1" = 300'

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED  
FROM FIELD NOTES OF AN ACTUAL SURVEY AND  
MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND  
SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JAMES, N.M.P.S. No. 7977  
No. 5074

**BASIN SURVEYS** P.O. BOX 1786-HOBBS, NEW MEXICO

**RICE OPERATING COMPANY**


REF: E-15 SITE

MONITOR WELLS LOCATED IN  
SECTION 15, TOWNSHIP 22 SOUTH, RANGE 37 EAST,  
N.M.P.M., LEA COUNTY, NEW MEXICO.

W.O. Number: 18353 Drawn By: J. M. SMALL

Date: 07-31-2007 Disk: JMS 18353MW

Survey Date: 07-30-2007 Sheet 2 of 2 Sheets

Windows Live Home **Hotmail** Spaces OneCare MSN   [whearth@msn.com](#) [Sign out](#)

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**RE: Rice BD E-15 AP-27 Status**

**From:** Price, Wayne, EMNRD (wayne.price@state.nm.us)  
**Sent:** Thu 5/17/07 9:03 AM  
**To:** Mike Griffin (whearth@msn.com); VonGonten, Glenn, EMNRD (Glenn.VonGonten@state.nm.us)  
**Cc:** chaynes@riceswd.com; kpope@riceswd.com

OCD hereby approves. Please make sure this approval is included in your final report.

**From:** Mike Griffin [mailto:whearth@msn.com]  
**Sent:** Wednesday, May 16, 2007 1:38 PM  
**To:** Price, Wayne, EMNRD; VonGonten, Glenn, EMNRD  
**Cc:** chaynes@riceswd.com; kpope@riceswd.com  
**Subject:** Rice BD E-15 AP-27 Status

Good Afternoon. All:

It was a busy week last week but I'm finally back in Katy for a few days. I thought it prudent to update everyone on where we are at the E-15 location.

Within the past few weeks, Rice obtained the necessary agreement with the landowner to run a pipe from the recovery well (Old MW-2) to the tanks. Immediately upon reaching the agreement, Rice set the support pole for the PV panels and laid a buried line plumbed with a flow meter to the tanks.

Whole Earth spent several days last week installing the downhole pump, panels etc. and managed to get a flow of one gpm for a single day. We diagnosed the problem as requiring more power so we are installing a second set of two panels and two new deeper cycle batteries next Monday.

In our meeting in Sante Fe last week, I described the condition of the existing recovery well. The formation (always marginal, at best) finally silted up several feet above the downhole pump. We are formally requesting that we be allowed to abandon the pump in place and grout the well to surface.

Please let me know if you've any questions or comments.

Mike Griffin  
 Whole Earth Environmental, Inc.  
 Phone: 281.394.2050  
 FAX: 281.394.2051

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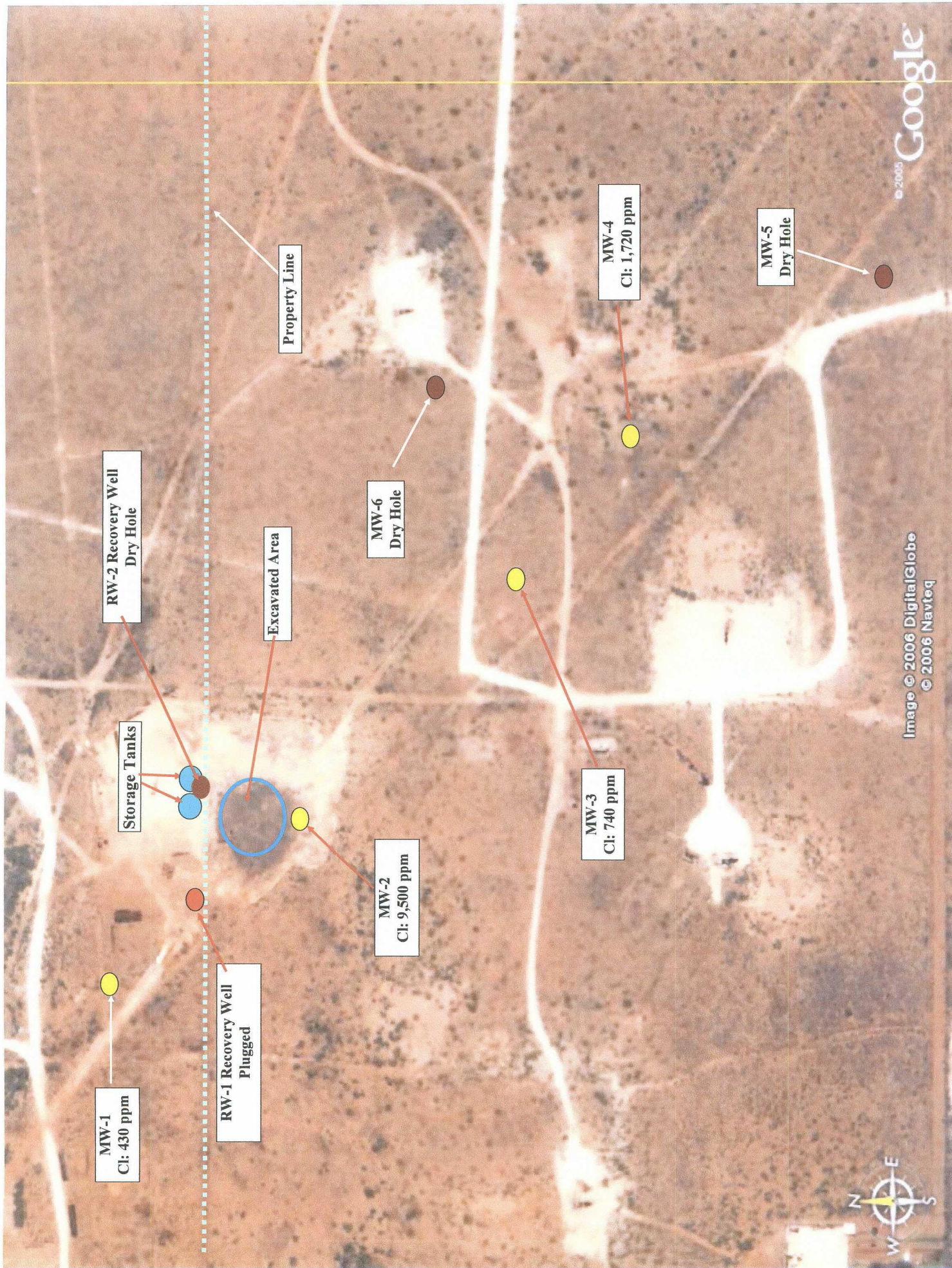
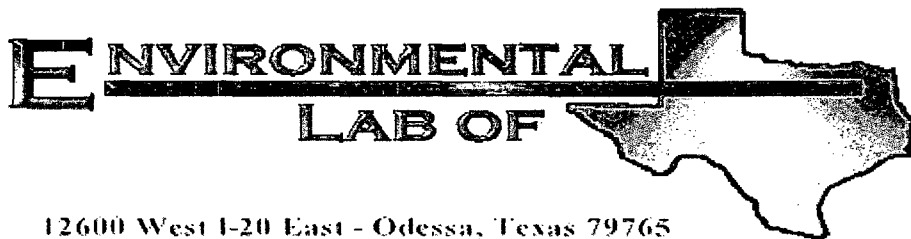


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12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories Company

## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD E-15 Leak

Project Number: None Given

Location: T22S-R37E Sec 15E ~ Lea County New Mexico

Lab Order Number: 7B16010

Report Date: 02/28/07



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

Project: BD E-15 Leak  
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	7B16010-01	Water	02/12/07 13:20	02-16-2007 09:40
Monitor Well #2	7B16010-02	Water	02/12/07 12:05	02-16-2007 09:40
Monitor Well #3	7B16010-03	Water	02/12/07 11:10	02-16-2007 09:40
Monitor Well #4	7B16010-04	Water	02/12/07 09:55	02-16-2007 09:40
Source Well	7B16010-05	Water	02/12/07 14:40	02-16-2007 09:40

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

Project: BD E-15 Leak  
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
<b>Monitor Well #1 (7B16010-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB72104	02/21/07	02/22/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		107 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	80-120		"	"	"	"	
<b>Monitor Well #2 (7B16010-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB72104	02/21/07	02/22/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		111 %	80-120		"	"	"	"	
<b>Monitor Well #3 (7B16010-03) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB72104	02/21/07	02/22/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	80-120		"	"	"	"	
<b>Monitor Well #4 (7B16010-04) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB72104	02/21/07	02/22/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		107 %	80-120		"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 11

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

Project: BD E-15 Leak  
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
<b>Source Well (7B16010-05) Water</b>									
Benzene	ND	0.00100	mg/L	1	EB72104	02/21/07	02/22/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		105 %	80-120		"	"	"	"	

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Page 3 of 11

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Project: BD E-15 Leak  
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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
<b>Monitor Well #1 (7B16010-01) Water</b>									
<b>Total Alkalinity</b>	<b>252</b>	2.00	mg/L	1	EB71701	02/17/07	02/17/07	EPA 310.1M	
<b>Chloride</b>	<b>587</b>	12.5	"	25	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>1460</b>	10.0	"	1	EB72001	02/16/07	02/17/07	EPA 160.1	
<b>Sulfate</b>	<b>249</b>	12.5	"	25	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Monitor Well #2 (7B16010-02) Water</b>									
<b>Total Alkalinity</b>	<b>300</b>	2.00	mg/L	1	EB71701	02/17/07	02/17/07	EPA 310.1M	
<b>Chloride</b>	<b>12800</b>	250	"	500	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>19500</b>	10.0	"	1	EB72001	02/16/07	02/17/07	EPA 160.1	
<b>Sulfate</b>	<b>691</b>	250	"	500	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Monitor Well #3 (7B16010-03) Water</b>									
<b>Total Alkalinity</b>	<b>134</b>	2.00	mg/L	1	EB71701	02/17/07	02/17/07	EPA 310.1M	
<b>Chloride</b>	<b>768</b>	12.5	"	25	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>1830</b>	10.0	"	1	EB72001	02/16/07	02/17/07	EPA 160.1	
<b>Sulfate</b>	<b>175</b>	12.5	"	25	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Monitor Well #4 (7B16010-04) Water</b>									
<b>Total Alkalinity</b>	<b>148</b>	2.00	mg/L	1	EB71701	02/17/07	02/17/07	EPA 310.1M	
<b>Chloride</b>	<b>1850</b>	25.0	"	50	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>3710</b>	10.0	"	1	EB72001	02/16/07	02/17/07	EPA 160.1	
<b>Sulfate</b>	<b>561</b>	25.0	"	50	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Source Well (7B16010-05) Water</b>									
<b>Total Alkalinity</b>	<b>336</b>	2.00	mg/L	1	EB71701	02/17/07	02/17/07	EPA 310.1M	
<b>Chloride</b>	<b>1350</b>	25.0	"	50	EB72203	02/22/07	02/22/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>2760</b>	10.0	"	1	EB72001	02/16/07	02/17/07	EPA 160.1	
<b>Sulfate</b>	<b>234</b>	25.0	"	50	EB72203	02/22/07	02/22/07	EPA 300.0	

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Page 4 of 11

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

Project: BD E-15 Leak  
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
<b>Monitor Well #1 (7B16010-01) Water</b>									
Calcium	170	4.05	mg/L	50	EB72209	02/22/07	02/22/07	EPA 6010B	
Magnesium	118	1.80	"	"	"	"	"	"	
Potassium	12.8	0.600	"	10	"	"	"	"	
Sodium	200	2.15	"	50	"	"	"	"	
<b>Monitor Well #2 (7B16010-02) Water</b>									
Calcium	1550	162	mg/L	2000	EB72209	02/22/07	02/22/07	EPA 6010B	
Magnesium	654	9.00	"	250	"	"	"	"	
Potassium	106	3.00	"	50	"	"	"	"	
Sodium	5720	86.0	"	2000	"	"	"	"	
<b>Monitor Well #3 (7B16010-03) Water</b>									
Calcium	192	4.05	mg/L	50	EB72209	02/22/07	02/22/07	EPA 6010B	
Magnesium	128	1.80	"	"	"	"	"	"	
Potassium	14.4	0.600	"	10	"	"	"	"	
Sodium	162	2.15	"	50	"	"	"	"	
<b>Monitor Well #4 (7B16010-04) Water</b>									
Calcium	505	20.2	mg/L	250	EB72209	02/22/07	02/22/07	EPA 6010B	
Magnesium	260	1.80	"	50	"	"	"	"	
Potassium	22.0	0.600	"	10	"	"	"	"	
Sodium	226	2.15	"	50	"	"	"	"	
<b>Source Well (7B16010-05) Water</b>									
Calcium	75.7	4.05	mg/L	50	EB72209	02/22/07	02/22/07	EPA 6010B	
Magnesium	45.1	1.80	"	"	"	"	"	"	
Potassium	30.8	0.600	"	10	"	"	"	"	
Sodium	864	10.8	"	250	"	"	"	"	

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Page 5 of 11



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122 W. Taylor  
Hobbs NM, 88240

Project: BD E-15 Leak  
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 Limits	RPD	RPD Limit	Notes
<b>Batch EB72104 - EPA 5030C (GC)</b>									
<b>Blank (EB72104-BLK1)</b>									
				Prepared: 02/21/07 Analyzed: 02/22/07					
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	54.0		ug/l	50.0		108	80-120		
Surrogate: 4-Bromofluorobenzene	59.2		"	50.0		118	80-120		
<b>LCS (EB72104-BS1)</b>									
				Prepared: 02/21/07 Analyzed: 02/22/07					
Benzene	0.0592	0.00100	mg/L	0.0500		118	80-120		
Toluene	0.0557	0.00100	"	0.0500		111	80-120		
Ethylbenzene	0.0564	0.00100	"	0.0500		113	80-120		
Xylene (p/m)	0.111	0.00100	"	0.100		111	80-120		
Xylene (o)	0.0500	0.00100	"	0.0500		100	80-120		
Surrogate: a,a,a-Trifluorotoluene	55.5		ug/l	50.0		111	80-120		
Surrogate: 4-Bromofluorobenzene	58.8		"	50.0		118	80-120		
<b>Calibration Check (EB72104-CCV1)</b>									
				Prepared: 02/21/07 Analyzed: 02/23/07					
Benzene	50.0		ug/l	50.0		100	80-120		
Toluene	46.9		"	50.0		93.8	80-120		
Ethylbenzene	48.8		"	50.0		97.6	80-120		
Xylene (p/m)	95.2		"	100		95.2	80-120		
Xylene (o)	42.7		"	50.0		85.4	80-120		
Surrogate: a,a,a-Trifluorotoluene	47.7		"	50.0		95.4	80-120		
Surrogate: 4-Bromofluorobenzene	54.6		"	50.0		109	80-120		
<b>Matrix Spike (EB72104-MS1)</b>									
				Source: 7B16006-01		Prepared: 02/21/07 Analyzed: 02/23/07			
Benzene	0.0507	0.00100	mg/L	0.0500	ND	101	80-120		
Toluene	0.0463	0.00100	"	0.0500	ND	92.6	80-120		
Ethylbenzene	0.0470	0.00100	"	0.0500	ND	94.0	80-120		
Xylene (p/m)	0.0930	0.00100	"	0.100	ND	93.0	80-120		
Xylene (o)	0.0408	0.00100	"	0.0500	ND	81.6	80-120		
Surrogate: a,a,a-Trifluorotoluene	45.6		ug/l	50.0		91.2	80-120		
Surrogate: 4-Bromofluorobenzene	48.9		"	50.0		97.8	80-120		

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Page 6 of 11

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122 W. Taylor  
Hobbs NM, 88240

Project: BD E-15 Leak  
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 EB72104 - EPA 5030C (GC)**

**Matrix Spike Dup (EB72104-MSD1)**

**Source: 7B16006-01**

Prepared: 02/21/07 Analyzed: 02/23/07

Benzene	0.0513	0.00100	mg/L	0.0500	ND	103	80-120	1.96	20	
Toluene	0.0482	0.00100	"	0.0500	ND	96.4	80-120	4.02	20	
Ethylbenzene	0.0492	0.00100	"	0.0500	ND	98.4	80-120	4.57	20	
Xylene (p/m)	0.0969	0.00100	"	0.100	ND	96.9	80-120	4.11	20	
Xylene (o)	0.0426	0.00100	"	0.0500	ND	85.2	80-120	4.32	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	44.3		ug/l	50.0		88.6	80-120			
Surrogate: 4-Bromofluorobenzene	53.3		"	50.0		107	80-120			

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Page 7 of 11

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

Project: BD E-15 Leak  
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 EB71701 - General Preparation (WetChem)**

**Blank (EB71701-BLK1)**

Prepared & Analyzed: 02/17/07

Total Alkalinity	ND	2.00	mg/L
------------------	----	------	------

**LCS (EB71701-BS1)**

Prepared & Analyzed: 02/17/07

Total Alkalinity	192	2.00	mg/L				85-115
Bicarbonate Alkalinity	230	2.00	"	200		115	85-115

**Duplicate (EB71701-DUP1)**

Source: 7B16006-01

Prepared & Analyzed: 02/17/07

Total Alkalinity	280	2.00	mg/L		290			3.51	20
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**Reference (EB71701-SRM1)**

Prepared & Analyzed: 02/17/07

Total Alkalinity	264		mg/L	250		106	90-110
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**Batch EB72001 - Filtration Preparation**

**Blank (EB72001-BLK1)**

Prepared: 02/16/07 Analyzed: 02/17/07

Total Dissolved Solids	ND	10.0	mg/L
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**Duplicate (EB72001-DUP1)**

Source: 7B16006-01RE1

Prepared: 02/16/07 Analyzed: 02/17/07

Total Dissolved Solids	6260	10.0	mg/L		5970			4.74	20
------------------------	------	------	------	--	------	--	--	------	----

**Duplicate (EB72001-DUP2)**

Source: 7B16009-03RE1

Prepared: 02/16/07 Analyzed: 02/17/07

Total Dissolved Solids	16900	10.0	mg/L		16900			0.00	20
------------------------	-------	------	------	--	-------	--	--	------	----

**Batch EB72203 - General Preparation (WetChem)**

**Blank (EB72203-BLK1)**

Prepared & Analyzed: 02/22/07

Sulfate	ND	0.500	mg/L
Chloride	ND	0.500	"

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Page 8 of 11

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

Project: BD E-15 Leak  
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 EB72203 - General Preparation (WetChem)**

**LCS (EB72203-BS1)**

Prepared & Analyzed: 02/22/07

Chloride	10.7	0.500	mg/L	10.0		107	80-120			
Sulfate	11.1	0.500	"	10.0		111	80-120			

**Calibration Check (EB72203-CCV1)**

Prepared & Analyzed: 02/22/07

Sulfate	10.3		mg/L	10.0		103	80-120			
Chloride	10.3		"	10.0		103	80-120			

**Duplicate (EB72203-DUP1)**

Source: 7B16008-02

Prepared & Analyzed: 02/22/07

Sulfate	237	50.0	mg/L		226			4.75	20	
Chloride	3040	50.0	"		3060			0.656	20	

**Duplicate (EB72203-DUP2)**

Source: 7B16010-01

Prepared & Analyzed: 02/22/07

Chloride	573	12.5	mg/L		587			2.41	20	
Sulfate	246	12.5	"		249			1.21	20	

**Matrix Spike (EB72203-MS1)**

Source: 7B16008-02

Prepared & Analyzed: 02/22/07

Chloride	4180	50.0	mg/L	1000	3060	112	80-120			
Sulfate	1270	50.0	"	1000	226	104	80-120			

**Matrix Spike (EB72203-MS2)**

Source: 7B16010-01

Prepared & Analyzed: 02/22/07

Chloride	872	12.5	mg/L	250	587	114	80-120			
Sulfate	527	12.5	"	250	249	111	80-120			

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Page 9 of 11

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

Project: BD E-15 Leak  
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 EB72209 - 6010B/No Digestion**

**Blank (EB72209-BLK1)**

Prepared & Analyzed: 02/22/07

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

**Calibration Check (EB72209-CCV1)**

Prepared & Analyzed: 02/22/07

Calcium	2.08		mg/L	2.00	104	85-115
Magnesium	1.80		"	2.00	90.0	85-115
Potassium	1.75		"	2.00	87.5	85-115
Sodium	1.79		"	2.00	89.5	85-115

**Duplicate (EB72209-DUP1)**

Source: 7B16006-01

Prepared & Analyzed: 02/22/07

Calcium	346	20.2	mg/L	360		3.97	20	
Magnesium	182	1.80	"	183		0.548	20	
Potassium	50.4	0.600	"	38.2		27.5	20	R2
Sodium	1800	21.5	"	1980		9.52	20	

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

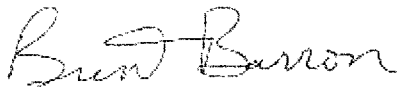
Project: BD E-15 Leak  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Notes and Definitions

R2        The RPD exceeded the acceptance limit.  
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: 2/28/2007

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

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Page 11 of 11

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Phone: 432-563-1800**  
**Fax: 432-563-1713**

Project Name: BD E-15 Leak

**Project #:**

**Project Loc:** T22S-R37E-Sec15E ~ Lea County New Mexico

##

Fax No: (505) 397-1471

rozanne@valornet.com

**(lab use only)**

ORDER #: 7612010

[illegible]

### Special Instructions:

Please email to : [kpope@priceswd.com](mailto:kpope@priceswd.com)

mfranks@riceswd.com

rozanne@valornet.com

~~Revised by~~

Date	Time
------	------

Discussed by

2

**THE**

-16-

**Relinquished by:**

Date \_\_\_\_\_

Received by:

Time

Time

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# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Rice  
 Date/ Time: 2/16/07 0940  
 Lab ID #: 7B16010  
 Initials: DM

### Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>-1.5</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 ELDT?	<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

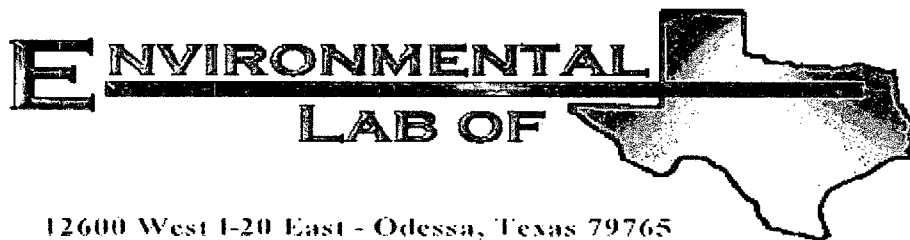
### Variance Documentation

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



12600 West I-20 East - Odessa, Texas 79765

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## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: BD E-15 Leak

Project Number: None Given

Location: T22S-R37E-Sec15E ~ Lea County New Mexico

Lab Order Number: 7D26007

Report Date: 05/07/07

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

Project: BD E-15 Leak  
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	7D26007-01	Water	04/24/07 15:20	04-26-2007 16:25
Monitor Well # 2	7D26007-02	Water	04/24/07 13:25	04-26-2007 16:25
Monitor Well # 3	7D26007-03	Water	04/24/07 14:30	04-26-2007 16:25
Monitor Well # 4	7D26007-04	Water	04/24/07 12:30	04-26-2007 16:25



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

Project: BD E-15 Leak  
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
<b>Monitor Well # 1 (7D26007-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	ED73007	04/30/07	05/01/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	
<b>Monitor Well # 2 (7D26007-02) Water</b>									
Benzene	ND	0.00100	mg/L	1	ED73007	04/30/07	05/01/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		108 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	
<b>Monitor Well # 3 (7D26007-03) Water</b>									
Benzene	ND	0.00100	mg/L	1	ED73007	04/30/07	05/01/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	80-120		"	"	"	"	
<b>Monitor Well # 4 (7D26007-04) Water</b>									
Benzene	ND	0.00100	mg/L	1	ED73007	04/30/07	05/01/07	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99.8 %	80-120		"	"	"	"	

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Page 2 of 10

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

Project: BD E-15 Leak  
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
<b>Monitor Well # 1 (7D26007-01) Water</b>									
<b>Total Alkalinity</b>	<b>242</b>	2.00	mg/L	1	ED73002	04/30/07	04/30/07	EPA 310.1M	
<b>Chloride</b>	<b>480</b>	10.0	"	20	EE70307	05/03/07	05/03/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>1470</b>	10.0	"	1	EE70209	04/27/07	05/02/07	EPA 160.1	
<b>Sulfate</b>	<b>221</b>	10.0	"	20	EE70307	05/03/07	05/03/07	EPA 300.0	
<b>Monitor Well # 2 (7D26007-02) Water</b>									
<b>Total Alkalinity</b>	<b>236</b>	2.00	mg/L	1	ED73002	04/30/07	04/30/07	EPA 310.1M	
<b>Chloride</b>	<b>11300</b>	100	"	200	EE70307	05/03/07	05/03/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>23500</b>	10.0	"	1	EE70209	04/27/07	05/02/07	EPA 160.1	
<b>Sulfate</b>	<b>588</b>	100	"	200	EE70307	05/03/07	05/03/07	EPA 300.0	
<b>Monitor Well # 3 (7D26007-03) Water</b>									
<b>Total Alkalinity</b>	<b>180</b>	2.00	mg/L	1	ED73002	04/30/07	04/30/07	EPA 310.1M	
<b>Chloride</b>	<b>664</b>	10.0	"	20	EE70307	05/03/07	05/03/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>1730</b>	10.0	"	1	EE70209	04/27/07	05/02/07	EPA 160.1	
<b>Sulfate</b>	<b>161</b>	10.0	"	20	EE70307	05/03/07	05/03/07	EPA 300.0	
<b>Monitor Well # 4 (7D26007-04) Water</b>									
<b>Total Alkalinity</b>	<b>152</b>	2.00	mg/L	1	ED73002	04/30/07	04/30/07	EPA 310.1M	
<b>Chloride</b>	<b>1360</b>	25.0	"	50	EE70307	05/03/07	05/03/07	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>3010</b>	10.0	"	1	EE70209	04/27/07	05/02/07	EPA 160.1	
<b>Sulfate</b>	<b>376</b>	25.0	"	50	EE70307	05/03/07	05/03/07	EPA 300.0	

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122 W. Taylor  
Hobbs NM, 88240

Project: BD E-15 Leak  
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
<b>Monitor Well # 1 (7D26007-01) Water</b>									
Calcium	152	4.05	mg/L	50	ED72704	04/27/07	04/27/07	EPA 6010B	
Magnesium	102	1.80	"	"	"	"	"	"	
Potassium	13.5	0.600	"	10	"	"	"	"	
Sodium	176	4.30	"	100	"	"	"	"	
<b>Monitor Well # 2 (7D26007-02) Water</b>									
Calcium	1450	20.2	mg/L	250	ED72704	04/27/07	04/27/07	EPA 6010B	
Magnesium	547	9.00	"	"	"	"	"	"	
Potassium	91.7	3.00	"	50	"	"	"	"	
Sodium	6100	43.0	"	1000	"	"	"	"	
<b>Monitor Well # 3 (7D26007-03) Water</b>									
Calcium	195	4.05	mg/L	50	ED72704	04/27/07	04/27/07	EPA 6010B	
Magnesium	137	1.80	"	"	"	"	"	"	
Potassium	16.9	0.600	"	10	"	"	"	"	
Sodium	186	4.30	"	100	"	"	"	"	
<b>Monitor Well # 4 (7D26007-04) Water</b>									
Calcium	484	20.2	mg/L	250	ED72704	04/27/07	04/27/07	EPA 6010B	
Magnesium	301	1.80	"	50	"	"	"	"	
Potassium	23.8	0.600	"	10	"	"	"	"	
Sodium	258	10.8	"	250	"	"	"	"	

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

Project: BD E-15 Leak  
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 Limits	RPD	RPD Limit	Notes
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**Batch ED73007 - EPA 5030C (GC)**

**Blank (ED73007-BLK1)**

Prepared & Analyzed: 04/30/07

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	51.7		ug/l	50.0		103	80-120		
Surrogate: 4-Bromofluorobenzene	52.3		"	50.0		105	80-120		

**LCS (ED73007-BS1)**

Prepared & Analyzed: 04/30/07

Benzene	0.0564	0.00100	mg/L	0.0500		113	80-120		
Toluene	0.0571	0.00100	"	0.0500		114	80-120		
Ethylbenzene	0.0575	0.00100	"	0.0500		115	80-120		
Xylene (p/m)	0.106	0.00100	"	0.100		106	80-120		
Xylene (o)	0.0575	0.00100	"	0.0500		115	80-120		
Surrogate: a,a,a-Trifluorotoluene	55.4		ug/l	50.0		111	80-120		
Surrogate: 4-Bromofluorobenzene	54.8		"	50.0		110	80-120		

**Calibration Check (ED73007-CCV1)**

Prepared: 04/30/07 Analyzed: 05/01/07

Benzene	0.0547		mg/L	0.0500		109	80-120		
Toluene	0.0555		"	0.0500		111	80-120		
Ethylbenzene	0.0550		"	0.0500		110	80-120		
Xylene (p/m)	0.102		"	0.100		102	80-120		
Xylene (o)	0.0566		"	0.0500		113	80-120		
Surrogate: a,a,a-Trifluorotoluene	53.8		ug/l	50.0		108	80-120		
Surrogate: 4-Bromofluorobenzene	53.8		"	50.0		108	80-120		

**Matrix Spike (ED73007-MS1)**

Source: 7D26012-01

Prepared: 04/30/07 Analyzed: 05/01/07

Benzene	0.0565	0.00100	mg/L	0.0500	ND	113	80-120		
Toluene	0.0568	0.00100	"	0.0500	ND	114	80-120		
Ethylbenzene	0.0549	0.00100	"	0.0500	ND	110	80-120		
Xylene (p/m)	0.105	0.00100	"	0.100	ND	105	80-120		
Xylene (o)	0.0577	0.00100	"	0.0500	ND	115	80-120		
Surrogate: a,a,a-Trifluorotoluene	54.0		ug/l	50.0		108	80-120		
Surrogate: 4-Bromofluorobenzene	53.6		"	50.0		107	80-120		

Environmental Lab of Texas

A Xenco Laboratories Company

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

Project: BD E-15 Leak  
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 ED73007 - EPA 5030C (GC)**

**Matrix Spike Dup (ED73007-MSD1)**

**Source: 7D26012-01**

Prepared: 04/30/07 Analyzed: 05/01/07

Benzene	0.0542	0.00100	mg/L	0.0500	ND	108	80-120	4.52	20	
Toluene	0.0551	0.00100	"	0.0500	ND	110	80-120	3.57	20	
Ethylbenzene	0.0561	0.00100	"	0.0500	ND	112	80-120	1.80	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	2.90	20	
Xylene (o)	0.0557	0.00100	"	0.0500	ND	111	80-120	3.54	20	
Surrogate: a,a,a-Trifluorotoluene	52.7		ug/l	50.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	52.8		"	50.0		106	80-120			

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Page 6 of 10



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

Project: BD E-15 Leak  
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 ED73002 - General Preparation (WetChem)**

**Blank (ED73002-BLK1)**

Prepared & Analyzed: 04/30/07

Total Alkalinity	ND	2.00	mg/L
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**LCS (ED73002-BS1)**

Prepared & Analyzed: 04/30/07

Total Alkalinity	0.00	2.00	mg/L				85-115
Bicarbonate Alkalinity	180	2.00	"	200		90.0	85-115

**Duplicate (ED73002-DUP1)**

Source: 7D26006-01

Prepared & Analyzed: 04/30/07

Total Alkalinity	214	2.00	mg/L		218			1.85	20
Bicarbonate Alkalinity	0.00	2.00	"		0.00				20

**Reference (ED73002-SRM1)**

Prepared & Analyzed: 04/30/07

Total Alkalinity	256		mg/L	250		102	90-110
------------------	-----	--	------	-----	--	-----	--------

**Batch EE70209 - General Preparation (WetChem)**

**Blank (EE70209-BLK1)**

Prepared: 04/27/07 Analyzed: 05/02/07

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

**Duplicate (EE70209-DUP1)**

Source: 7D26007-01

Prepared: 04/27/07 Analyzed: 05/02/07

Total Dissolved Solids	1500	10.0	mg/L		1470			2.02	20
------------------------	------	------	------	--	------	--	--	------	----

**Duplicate (EE70209-DUP2)**

Source: 7D26009-01

Prepared: 04/27/07 Analyzed: 05/02/07

Total Dissolved Solids	712	10.0	mg/L		684			4.01	20
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**Batch EE70307 - General Preparation (WetChem)**

**Blank (EE70307-BLK1)**

Prepared & Analyzed: 05/03/07

Chloride	ND	0.500	mg/L
Sulfate	ND	0.500	"

Environmental Lab of Texas

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Page 7 of 10

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

Project: BD E-15 Leak  
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 Limits	RPD	RPD Limit	Notes
<b>Batch EE70307 - General Preparation (WetChem)</b>									
<b>LCS (EE70307-BS1)</b>				Prepared & Analyzed: 05/03/07					
Chloride	9.62	0.500	mg/L	10.0	96.2	80-120			
Sulfate	10.0	0.500	"	10.0	100	80-120			
<b>Calibration Check (EE70307-CCV1)</b>				Prepared & Analyzed: 05/03/07					
Sulfate	11.6		mg/L	10.0	116	80-120			
Chloride	8.93		"	10.0	89.3	80-120			
<b>Duplicate (EE70307-DUP1)</b>				<b>Source: 7D26006-01</b>		Prepared & Analyzed: 05/03/07			
Sulfate	342	12.5	mg/L		339		0.881	20	
Chloride	941	50.0	"		917		2.58	20	
<b>Duplicate (EE70307-DUP2)</b>				<b>Source: 7D26010-01</b>		Prepared & Analyzed: 05/03/07			
Sulfate	74.1	5.00	mg/L		75.5		1.87	20	
Chloride	93.1	5.00	"		94.3		1.28	20	
<b>Matrix Spike (EE70307-MS1)</b>				<b>Source: 7D26006-01</b>		Prepared & Analyzed: 05/03/07			
Sulfate	728	12.5	mg/L	250	339	156	80-120		M1
<b>Matrix Spike (EE70307-MS2)</b>				<b>Source: 7D26010-01</b>		Prepared & Analyzed: 05/03/07			
Chloride	278	5.00	mg/L	100	94.3	184	80-120		M1
Sulfate	204	5.00	"	100	75.5	128	80-120		M1
<b>Matrix Spike (EE70307-MS3)</b>				<b>Source: 7D26006-01</b>		Prepared & Analyzed: 05/03/07			
Chloride	1800	50.0	mg/L	1000	917	88.3	80-120		

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

Project: BDE-15 Leak  
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 ED72704 - 6010B/No Digestion**

**Blank (ED72704-BLK1)**

Prepared & Analyzed: 04/27/07

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

**Calibration Check (ED72704-CCV1)**

Prepared & Analyzed: 04/27/07

Calcium	2.13		mg/L	2.00	106	85-115
Magnesium	2.15		"	2.00	108	85-115
Potassium	2.14		"	2.00	107	85-115
Sodium	1.98		"	2.00	99.0	85-115

**Duplicate (ED72704-DUP1)**

Source: 7D23010-01

Prepared & Analyzed: 04/27/07

Calcium	44.1	0.810	mg/L	42.4		3.93	20
Magnesium	43.0	0.360	"	42.4		1.41	20
Potassium	22.7	0.600	"	22.1		2.68	20
Sodium	41.9	0.430	"	40.8		2.66	20

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Page 9 of 10

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

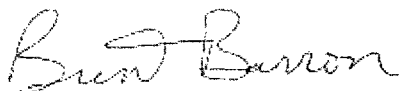
Project: BD E-15 Leak  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

### Notes and Definitions

M1 The MS and/or MSD were above the acceptance limits due to sample matrix interference. See Blank Spike (LCS).  
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:

5/7/2007

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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Page 10 of 10



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

Client: Rice  
Date/ Time: 4-26-07 4:25  
Lab ID #: 7D26007  
Initials: CL

**Sample Receipt Checklist**

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	-1.0 °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	<u>Not Applicable</u>
#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 (915) 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) 397-1471

Receiving Date: 09/26/07  
Reporting Date: 09/27/07  
Project Number: NOT GIVEN  
Project Name: BD E-15 LEAK  
Project Location: T22S-R37E-SEC15E ~ LEA COUNTY, NM

Sampling Date: 09/24/07  
Sample Type: GROUNDWATER  
Sample Condition: COOL & INTACT  
Sample Received By: SB  
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		09/27/07	09/27/07	09/27/07	09/27/07
H13384-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
H13384-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H13384-3	MONITOR WELL #3	<0.002	<0.002	<0.002	<0.006
H13384-4	MONITOR WELL #4	<0.002	<0.002	<0.002	<0.006
Quality Control		0.096	0.091	0.091	0.260
True Value QC		0.100	0.100	0.100	0.300
% Recovery		96.0	91.2	91.1	86.8
Relative Percent Difference		0.2	4.8	5.4	4.1

METHOD: EPA SW-846 8260

Chemist

10/9/07  
Date

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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 STREET  
HOBBS, NM 88240  
FAX TO: (505) 397-1471

Receiving Date: 09/26/07  
Reporting Date: 10/04/07  
Project Owner: NOT GIVEN  
Project Name: BD E-15 LEAK  
Project Location: T2S-R37E-SEC15E~LEA COUNTY, NM

Sampling Date: 09/24/07  
Sample Type: WATER  
Sample Condition: COOL & INTACT  
Sample Received By: SB  
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		10/03/07	10/02/07	10/02/07	10/02/07	09/28/07	09/28/07
H13384-1	MONITOR WELL #1	274	129	99.2	9.00	2,450	244
H13384-2	MONITOR WELL #2	4502	1011	436	57.9	25,800	176
H13384-3	MONITOR WELL #3	209	196	123	10.2	2,830	136
H13384-4	MONITOR WELL #4	321	452	262	19.5	5,590	120
Quality Control		NR	51.9	49.2	1.91	9,790	NR
True Value QC		NR	50.0	50.0	2.00	10,000	NR
% Recovery		NR	104	98.4	95.7	97.9	NR
Relative Percent Difference		NR	2.5	3.2	1.6	1.3	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	10/01/07	10/03/07	09/28/07	09/28/07	09/28/07	09/28/07
H13384-1	528	337	0	298	7.20	1,382
H13384-2	9,497	605	0	215	7.49	16,202
H13384-3	750	261	0	166	7.36	2,265
H13384-4	1,600	535	0	146	7.22	3,924
Quality Control	500	27.8	NR	1013	6.99	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	111	NR	101	99.9	NR
Relative Percent Difference	2.0	2.6	NR	1.3	0.3	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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*Kristin Dupre*  
Chemist

*10/04/07*  
Date

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[illegible]



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: 12/04/07

Reporting Date: 12/05/07

Project Number: NOT GIVEN

Project Name: BD E-15 LEAK

Project Location: T22S-R37E-SEC15E ~ LEA COUNTY, NM

Sampling Date: 11/30/07

Sample Type: WATER

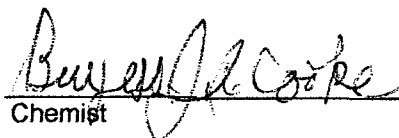
Sample Condition: COOL & INTACT


Sample Received By: NF

Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		12/05/07	12/05/07	12/05/07	12/05/07
H13834-1	MONITOR WELL #1	<0.002	<0.002	<0.002	<0.006
H13834-2	MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H13834-3	MONITOR WELL #3	<0.002	<0.002	<0.002	<0.006
H13834-4	MONITOR WELL #4	<0.002	<0.002	<0.002	<0.006
Quality Control		0.093	0.096	0.098	0.297
True Value QC		0.100	0.100	0.100	0.300
% Recovery		93.1	96.0	98.2	99
Relative Percent Difference		2.5	2.1	3.9	3.9

METHOD: EPA 624/SW-846 8260

  
Chemist

  
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: 12/04/07  
Reporting Date: 12/07/07  
Project Number: NOT GIVEN  
Project Name: BD E-15 LEAK  
Project Location: T22S-R37E-SEC15E~LEA COUNTY, NM

Sampling Date: 11/30/07  
Sample Type: WATER  
Sample Condition: COOL & INTACT  
Sample Received By: NF  
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity ( $\mu$ S/cm)	T-Alkalinity (mgCaCO <sub>3</sub> /L)
ANALYSIS DATE:		12/07/07	12/07/07	12/07/07	12/07/07	12/07/07	12/07/07
H13834-1	MONITOR WELL #1	172	137	81.5	12.2	2,154	264
H13834-2	MONITOR WELL #2	4,224	1130	474	55.8	26,330	144
H13834-3	MONITOR WELL #3	192	186	109	12.7	2,834	140
H13834-4	MONITOR WELL #4	234	406	359	19.7	5,730	116
Quality Control		NR	49.2	50.8	2.88	1,404	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	98.5	102	96.0	99.4	NR
Relative Percent Difference		NR	< 0.1	1.6	12.4	1.3	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl <sup>-</sup> (mg/L)	SO <sub>4</sub> (mg/L)	CO <sub>3</sub> (mg/L)	HCO <sub>3</sub> (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	12/07/07	12/07/07	12/07/07	12/07/07	12/07/07	12/05/07
H13834-1     MONITOR WELL #1	430	190	0	322	7.22	1,423
H13834-2     MONITOR WELL #2	9,500	484	0	176	7.59	17,709
H13834-3     MONITOR WELL #3	740	158	0	171	7.60	1,833
H13834-4     MONITOR WELL #4	1,720	468	0	142	7.42	3,906
Quality Control	490	28.0	NR	1000	7.04	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	98.0	112	NR	100	101	NR
Relative Percent Difference	2.0	5.8	NR	1.2	0.1	NR

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

12/07/07  
Date

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## CHAIN-OF-CUSTODY AND ANALYSIS BENEFIT

[illegible]

## Monitor Well Chloride Concentrations (Mg/L)

Monitor Well # 1	
04/09/02	815
06/07/02	532
10/23/02	620
12/30/02	691
04/14/03	709
06/19/03	736
10/11/03	709
05/08/04	744
10/01/04	762
12/30/04	762
02/11/05	663
05/01/05	512
08/30/05	1760
11/08/05	438
02/07/06	387
05/09/06	367
08/29/06	501
02/12/07	587
04/24/07	480
09/24/07	528
11/30/07	430

Monitor Well # 2		
01/23/01	19,675	
04/09/02	42,500	
06/07/02	28,000	
10/23/02	39,000	
12/30/02	31,600	
04/14/03	29,200	
06/19/03	29,200	
10/11/03	28,500	
05/08/04	25,200	
10/01/04	23,900	
12/30/04	25,400	
02/11/05	18,000	
05/01/05	23,900	
08/30/05	24,400	
11/08/05	17,200	
02/07/06	17,700	
05/09/06	16,200	
08/29/06	15,500	
02/12/07	12,800	
04/24/07	11,300	
09/24/07	9,497	
11/30/07	9,500	

Monitor Well # 3	
01/23/01	780
04/09/02	691
06/07/02	857
10/23/02	827
12/30/02	868
04/14/03	886
06/19/03	886
10/11/03	992
10/01/04	904
12/30/04	993
02/11/05	797
05/01/05	909
08/30/05	676
11/08/05	845
02/07/06	769
05/09/06	907
08/29/06	728
02/12/07	768
04/24/07	664
09/24/07	750
11/30/07	740

Monitor Well # 4	
04/09/02	1,490
06/07/02	1,510
10/23/02	1,600
12/30/02	1,610
04/14/03	1,510
06/19/03	1,750
10/11/03	1,770
05/08/04	1,880
10/01/04	1,840
12/30/04	1,840
02/11/05	1,400
05/01/05	1,970
08/30/05	1,000
11/08/05	1,510
02/07/06	1,550
05/09/06	1,820
08/29/06	1,580
02/12/07	1,850
04/24/07	1,360
09/24/07	1,600
11/30/07	1,720

[illegible]

## Monitor Well Chloride Concentrations (Mg/L)

2.

### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #1  
DATE: February 12, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☐ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 91.96 Feet  
DEPTH TO WATER: 73.59 Feet  
HEIGHT OF WATER COLUMN: 18.37 Feet  
WELL VOLUME: 2.9 Gal.

2 In. Well Diameter  
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
13:20	19.4	2.18	7.30	Red Silt & Sand / No odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #1  
DATE: September 24, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 91.96 Feet  
DEPTH TO WATER: 73.62 Feet  
HEIGHT OF WATER COLUMN: 18.34 Feet  
WELL VOLUME: 2.9 Gal.

2 In. Well Diameter  
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
12:40	23.6	2.45	7.37	Red Silt & Sand / No odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #1  
DATE: November 30, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 91.96 Feet  
DEPTH TO WATER: 73.63 Feet  
HEIGHT OF WATER COLUMN: 18.33 Feet  
WELL VOLUME: 2.9 Gal. 2 In. Well Diameter  
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
12:00	19.4	2.15	7.21	Red Silt & Sand / No odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #1  
DATE: February 12, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 91.96 Feet  
DEPTH TO WATER: 73.59 Feet  
HEIGHT OF WATER COLUMN: 18.37 Feet  
WELL VOLUME: 2.9 Gal.

2 In. Well Diameter  
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
13:20	19.4	2.18	7.30	Red Silt & Sand / No odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

**COMMENTS:**

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #2  
DATE: February 12, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump

SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 87.40 Feet

DEPTH TO WATER: 76.41 Feet

HEIGHT OF WATER COLUMN: 10.99 Feet

WELL VOLUME: 1.8 Gal.

2 In. Well Diameter

7 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
12:05	19.6	32.14	6.85	Red Silt Color to Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS: The well was unlocked, but the cap was still in place.

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #2  
DATE: April 24, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump

SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 87.40 Feet

DEPTH TO WATER: 76.44 Feet

HEIGHT OF WATER COLUMN: 10.96 Feet

WELL VOLUME: 1.8 Gal.

2 In. Well Diameter

7 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
13:25	22.2	31.81	6.78	Red Silt Color to Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

**COMMENTS:**

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #2  
DATE: September 24, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☐ Pump, Type: \*\* Well has designated pump.  
SAMPLING METHOD: ☐ Disposable Bailer ☒ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: \*\* Feet \*\* Well has designated pump.  
DEPTH TO WATER: \*\* Feet  
HEIGHT OF WATER COLUMN: \*\* Feet  
WELL VOLUME: \*\* Gal. 2 In. Well Diameter  
\*\* Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
13:20	22.7	24.49	7.15	Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS: \*\* Well has designated pump.

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #2  
DATE: November 30, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☐ Pump, Type: \*\* Well has designated pump.  
SAMPLING METHOD: ☐ Disposable Bailer ☒ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: \*\* Feet \*\* Well has designated pump.  
DEPTH TO WATER: \*\* Feet  
HEIGHT OF WATER COLUMN: \*\* Feet  
WELL VOLUME: \*\* Gal. 2 In. Well Diameter  
\*\* Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
12:40	19.6	26.32	7.58	Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS: \*\* Well has designated pump.

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #3  
DATE: February 12, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 99.20 Feet  
DEPTH TO WATER: 79.92 Feet  
HEIGHT OF WATER COLUMN: 19.28 Feet  
WELL VOLUME: 3.1 Gal.

2 In. Well Diameter  
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
11:10	19.8	3.01	7.28	Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS: Well pumps off.

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #3  
DATE: April 24, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 99.20 Feet  
DEPTH TO WATER: 78.92 Feet  
HEIGHT OF WATER COLUMN: 20.28 Feet  
WELL VOLUME: 3.2 Gal.

2 In. Well Diameter  
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
14:30	24.9	2.95	7.28	Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS: Well pumps off.

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #3  
DATE: September 24, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 99.20 Feet  
DEPTH TO WATER: 78.98 Feet  
HEIGHT OF WATER COLUMN: 20.22 Feet  
WELL VOLUME: 3.2 Gal. 2 In. Well Diameter  
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
11:20	24.1	2.83	7.30	Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS: Well pumps off.

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #3  
DATE: November 30, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 99.20 Feet  
DEPTH TO WATER: 78.95 Feet  
HEIGHT OF WATER COLUMN: 20.25 Feet  
WELL VOLUME: 3.2 Gal.

2 In. Well Diameter  
10 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:45	19.7	2.81	7.61	Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #4  
DATE: April 24, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 98.50 Feet  
DEPTH TO WATER: 85.58 Feet  
HEIGHT OF WATER COLUMN: 12.92 Feet  
WELL VOLUME: 2.1 Gal.

2 In. Well Diameter  
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
12:30	22.7	5.50	7.08	Red Silt Color to Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

**COMMENTS:**

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #4  
DATE: September 24, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 98.50 Feet  
DEPTH TO WATER: 85.78 Feet  
HEIGHT OF WATER COLUMN: 12.72 Feet  
WELL VOLUME: 2.0 Gal.

2 In. Well Diameter  
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
10:15	24.3	5.56	7.23	Red Silt Color to Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Monitor Well #4  
DATE: November 30, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Purge Pump  
SAMPLING METHOD: ☒ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: \_\_\_\_\_

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: 98.50 Feet  
DEPTH TO WATER: 86.30 Feet  
HEIGHT OF WATER COLUMN: 12.20 Feet  
WELL VOLUME: 2.0 Gal.

2 In. Well Diameter  
8 Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
9:40	19.7	5.72	7.42	Red Silt Color to Clear with no odor.
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

**COMMENTS:**

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Cardinal Lab in Hobbs, New Mexico for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Source Monitor Well  
DATE: February 12, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Down Hole Pump  
SAMPLING METHOD: ☐ Disposable Bailer ☐ Direct from Discharge Hose ☒ Other: Valve at Top of Well C

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: unknown Feet  
DEPTH TO WATER: unknown Feet  
HEIGHT OF WATER COLUMN: unknown Feet  
WELL VOLUME: \_\_\_\_\_ Gal.

\_\_\_\_\_ In. Well Diameter  
\_\_\_\_\_ Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
				Well purged by activating down hole pump allowing the well to be pumped dry and recover three times before sampling.
14:40	20.7	4.97	7.49	Clear with No Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.

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### WELL SAMPLING DATA FORM

CLIENT: RICE Operating Company  
SYSTEM: BD  
SITE LOCATION: E-15 Leak

WELL ID: Source Monitor Well  
DATE: February 12, 2007  
SAMPLER: Rozanne Johnson

PURGING METHOD: ☐ Hand Bailed ☒ Pump, Type: Down Hole Pump  
SAMPLING METHOD: ☐ Disposable Bailer ☐ Direct from Discharge Hose ☒ Other: Valve at Top of Well

DISPOSAL METHOD OF PURGE WATER: ☐ On-site Drum ☐ Drums ☒ SWD Disposal Facility

TOTAL DEPTH OF WELL: unknown Feet  
DEPTH TO WATER: unknown Feet  
HEIGHT OF WATER COLUMN: unknown Feet  
WELL VOLUME: \_\_\_\_\_ Gal.

\_\_\_\_\_ In. Well Diameter  
\_\_\_\_\_ Gallons purged prior to sampling

TIME	TEMP. °C	COND. mS/cm	pH	PHYSICAL APPEARANCE AND REMARKS
				Well purged by activating down hole pump allowing the well to be pumped dry and recover three times before sampling.
14:40	20.7	4.97	7.49	Clear with No Odor
				Samples Collected
				BTEX (2-40ml VOA)
				Major Ions/TDS (1-1000ml Plastic)

COMMENTS:

Myron Model 6P instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Environmental Lab of Texas for BTEX, Major Ions, and TDS analysis.