

AP – 064

**ANNUAL GW
MONITOR REPORT**

DATE:

2007

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266.0745

AP-64
Annual GW Mon. Report
2007

2008 FEB 7 PM 2 41

January 24, 2008

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

RE: 2007 Annual Ground Water Monitoring Report
F-29 SWD, Sec 29, T18S, R38E, Unit "F"
NMOCD Case #: AP-64

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2007 Annual Ground Water Monitoring Report for the F-29 SWD site located in the Hobbs Salt Water Disposal System (SWD). This report consists of the following sections:

1. A table summarizing all laboratory results, depth to ground water and other pertinent data associated with ground water sampling at the site, including this past year.
2. Graphs showing chemical concentration over time for chloride, TDS, and sulfate.
3. Laboratory data sheets associated with the routine sampling for 2007.
4. Potentiometric surface map.
5. Site Survey

A Stage I/II Abatement Plan was submitted to NMOCD on October 27, 2006. On July 18, 2007, NMOCD verbally approved the installation of one additional monitoring well. The monitoring well was completed in October, 2007. We plan to continue site investigation in 2008.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of this report. If you have any questions, please contact us at 505-266-5004, or Kristin Farris Pope at ROC, 505-393-9174.

Sincerely,
R.T. Hicks Consultants, Ltd.



Randall T. Hicks
Principal

Copy: Hobbs NMOCD office; Rice Operating Company

F-29 SWD

Table 1: chemistry over time

Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	EthylBenzene (mg/L)	Total Xylenes (mg/L)	Comments
MW-2										
MW-2	3/21/2000	XXX	2564	XXX	6660	XXX	XXX	XXX	XXX	
MW-2	7/10/2000	49.00	1829	XXX	3470	<0.002	<0.002	<0.002	<0.006	
MW-2	9/27/2000	49.26	1748	XXX	3032	<0.002	<0.002	<0.002	<0.006	
MW-2	12/12/2000	49.61	1027	XXX	2586	<0.002	<0.002	<0.002	<0.006	
MW-2	1/4/2001	XXX	308	XXX	1114	XXX	XXX	XXX	XXX	
MW-2	3/16/2001	XXX	396	XXX	1373	XXX	XXX	XXX	XXX	
MW-2	3/23/2001	XXX	368	XXX	1312	XXX	XXX	XXX	XXX	
MW-2	5/7/2001	XXX	365	XXX	1272	XXX	XXX	XXX	XXX	
MW-2	6/8/2001	XXX	513	XXX	1796	XXX	XXX	XXX	XXX	
MW-2	8/14/2001	XXX	340	XXX	1385	XXX	XXX	XXX	XXX	
MW-2	12/29/2001	51.13	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
MW-2	1/4/2002	51.16	308	XXX	1114	XXX	XXX	XXX	XXX	
MW-2	6/6/2002	XXX	221	135	XXX	<0.001	<0.001	<0.001	<0.001	
MW-2	8/14/2002	52.07	186	144	806	<0.001	<0.001	<0.001	<0.001	
MW-2	12/11/2002	52.58	172	106	738	<0.002	<0.002	<0.002	<0.006	
MW-2	3/21/2003	52.94	230	140	XXX	<0.001	<0.001	<0.001	<0.001	
MW-2	5/28/2003	53.15	257	138	804	<0.001	<0.001	<0.001	<0.001	
MW-2	9/22/2003	53.71	151	173	700	<0.001	<0.001	<0.001	<0.001	
MW-2	12/18/2003	54.10	208	71	815	<0.002	<0.002	<0.002	0.014	
MW-2	3/15/2004	54.33	186	103	607	<0.001	<0.001	<0.001	<0.001	
MW-2	5/27/2004	XXX	213	138	830	<0.001	<0.001	<0.001	<0.001	
MW-2	9/8/2004	54.60	248	129	946	0.00464	0.000412	0.000979	0.001199	no odor; clear

F-29 SWD

Table 1: chemistry over time

Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	EthylBenzene (mg/L)	Total Xylenes (mg/L)	Comments
MW-2	11/23/2004	54.20	139	125	888	0.00448	<0.001	<0.001	0.000714	no odor; clear
MW-2	3/22/2005	53.39	214	196	914	<0.001	<0.001	<0.001	<0.001	no odor; clear
MW-2	5/18/2005	53.35	223	131	930	<0.001	<0.001	<0.001	<0.001	
MW-2	8/8/2005	53.55	210	130	799	<0.001	<0.001	<0.001	<0.001	
MW-2	10/31/2005	53.81	185	100	762	<0.001	<0.001	<0.001	<0.001	no odor; clear
MW-2	1/30/2006	53.89	198	89.4	904	<0.001	<0.001	<0.001	<0.001	no odor; clear
MW-2	5/1/2006	53.91	212	91.3	904	<0.001	<0.001	<0.001	<0.001	
MW-2	10/16/2006	54.13	258	116	1040	<0.001	j[0.000790]	j[0.000356]	j[0.000940]	Clear
MW-2	2/5/2007	54.08	299	112	908	<0.001	<0.001	<0.001	<0.001	Clear No Odor
MW-2	5/16/2007	54.17	236	102	898	<0.001	<0.001	<0.001	<0.001	No odor/ clear
MW-2	7/31/2007	54.37	272	41.9	1040	<0.001	<0.001	<0.001	0.0033	Clear No Odor
MW-2	10/18/2007	54.43	292	113	1047	<0.001	<0.001	<0.001	<0.003	Clear No odor

Table 1: chemistry over time

F-29 SWD

Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	EthylBenzene (mg/L)	Total Xylenes (mg/L)	Comments
MW-3	1/4/2001	XXX	136	XXX	1013	XXX	XXX	XXX	XXX	
MW-3	12/29/2001	51.20	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
MW-3	1/4/2002	51.24	136	XXX	1013	XXX	XXX	XXX	XXX	
MW-3	5/24/2002	XXX	137	158	917	<0.001	<0.001	<0.001	<0.001	
MW-3	8/14/2002	52.12	151	284	998	<0.001	<0.001	<0.001	<0.001	
MW-3	12/11/2002	52.64	136	201	1069	0.005	<0.002	<0.002	<0.006	
MW-3	3/21/2003	52.98	133	266	XXX	<0.001	<0.001	<0.001	<0.001	
MW-3	5/28/2003	53.70	301	240	1120	<0.001	<0.001	<0.001	<0.001	
MW-3	9/22/2003	53.74	120	238	881	<0.001	<0.001	<0.001	<0.001	
MW-3	3/15/2004	54.35	115	248	1140	<0.001	<0.001	<0.001	<0.001	
MW-3	5/27/2004	XXX	111	171	810	<0.001	<0.001	<0.001	<0.001	
MW-3	9/8/2004	54.60	230	186	937	<0.001	<0.001	<0.001	<0.001	no odor; clear; retrieved bailer
MW-3	11/23/2004	54.40	115	183	925	<0.001	<0.001	<0.001	<0.001	no odor; clear
MW-3	12/18/2004	54.59	124	73	852	<0.002	<0.002	<0.002	<0.006	
MW-3	3/22/2005	53.40	162	126	796	<0.001	<0.001	<0.001	<0.001	no odor; clear
MW-3	5/18/2005	53.38	272	92	1050	<0.001	<0.001	<0.001	<0.001	
MW-3	8/8/2005	53.90	203	122	945	<0.001	<0.001	<0.001	<0.001	
MW-3	10/31/2005	53.57	113	116	732	<0.001	<0.001	<0.001	<0.001	no odor; clear
MW-3	1/30/2006	53.92	97.3	120	650	<0.001	<0.001	<0.001	j[0.000562]	no odor; clear
MW-3	5/1/2006	53.98	85.3	111	704	<0.001	<0.001	<0.001	<0.001	
MW-3	10/16/2006	54.18	88.9	135	616	<0.001	j[0.000950]	j[0.000404]	0.00105	Clear
MW-3	2/5/2007	54.10	98.3	128	572	<0.001	<0.001	<0.001	<0.001	Clear/
MW-3	5/16/2007	54.20	90.6	111	542	<0.001	<0.001	<0.001	<0.001	no odor/clear

Table 1: chemistry over time

F-29 SWD

Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	EthylBenzene (mg/L)	Total Xylenes (mg/L)	Comments
MW-3	7/31/2007	54.23	105	76.5	590	<0.001	<0.001	<0.001	<0.002	Clear No Odor
MW-3	10/18/2007	54.48	100	120	611	<0.001	<0.001	<0.001	<0.003	Clear No odor

F-29 SWD

Table 1: chemistry over time

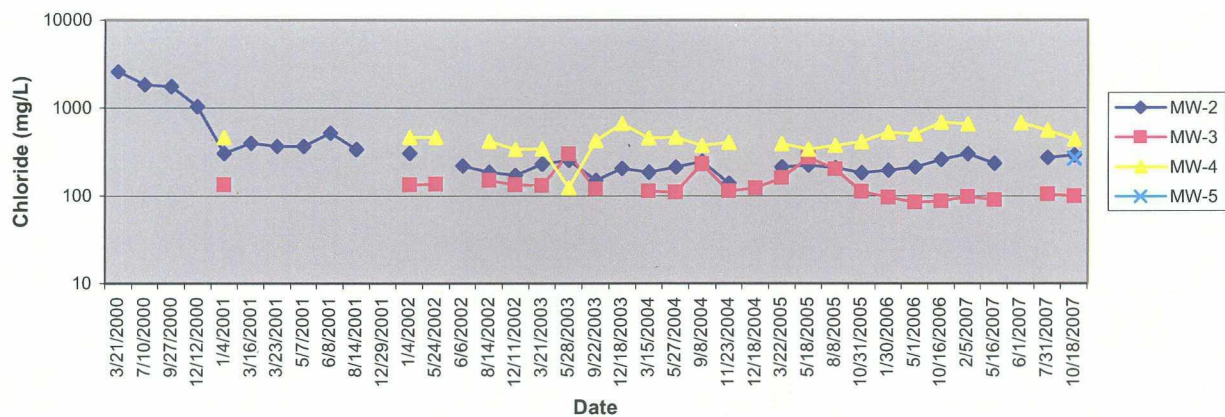
Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	EthylBenzene (mg/L)	Total Xylenes (mg/L)	Comments
MW-4	1/4/2001	XXX	464	XXX	1781	XXX	XXX	XXX	XXX	
MW-4	12/29/2001	51.51	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
MW-4	1/4/2002	51.56	464	XXX	1781	XXX	XXX	XXX	XXX	
MW-4	5/24/2002	XXX	461	286	1520	<0.001	<0.001	<0.001	<0.001	
MW-4	8/14/2002	52.50	416	303	1660	<0.001	<0.001	<0.001	<0.001	
MW-4	12/11/2002	53.00	336	170	1302	0.003	<0.002	<0.002	<0.006	
MW-4	3/21/2003	53.41	346	289	XXX	<0.001	<0.001	<0.001	<0.001	
MW-4	5/28/2003	53.25	124	269	742	<0.001	<0.001	<0.001	<0.001	
MW-4	9/22/2003	54.21	425	271	1640	<0.001	<0.001	<0.001	<0.001	
MW-4	12/18/2003	54.12	660	123	1902	<0.002	<0.002	<0.002	<0.006	
MW-4	3/15/2004	54.84	452	290	1510	<0.001	<0.001	<0.001	<0.001	
MW-4	5/27/2004	XXX	461	174	1600	<0.001	<0.001	<0.001	<0.001	
MW-4	9/8/2004	54.80	372	260	1300	<0.001	<0.001	<0.001	<0.001	clear; no odor; no lock (replaced)
MW-4	11/23/2004	54.40	401	217	1550	<0.001	<0.001	<0.001	<0.001	clear; no odor
MW-4	3/22/2005	53.76	392	196	1220	<0.001	<0.001	<0.001	<0.001	clear; no odor
MW-4	5/18/2005	53.78	336	169	1230	<0.001	<0.001	<0.001	<0.001	
MW-4	8/8/2005	53.98	370	171	1230	<0.001	<0.001	<0.001	<0.001	
MW-4	10/31/2005	53.82	411	156	1560	<0.001	J[0.000774]	J[0.000385	J[0.000842]	clear no odor Slow to recover from bailing
MW-4	1/30/2006	54.31	523	182	1780	<0.001	<0.001	j[0.000332]	j[0.001064]	clear no odor Slow to recover from bailing
MW-4	5/1/2006	54.36	501	144	1800	<0.001	<0.001	<0.001	<0.001	clear no odor Slow to recover from bailing
MW-4	10/16/2006	54.53	683	284	2570	<0.001	<0.001	<0.001	<0.001	No Odor / Sandy Well was slow to recover from bailing
MW-4	2/5/2007	54.52	653	289	1750	<0.001	<0.001	<0.001	<0.001	Total
MW-4	6/1/2007	54.68	668	254	2060	<0.001	<0.001	<0.001	<0.001	No Odor Sandy Well Pumped Out

F-29 SWD

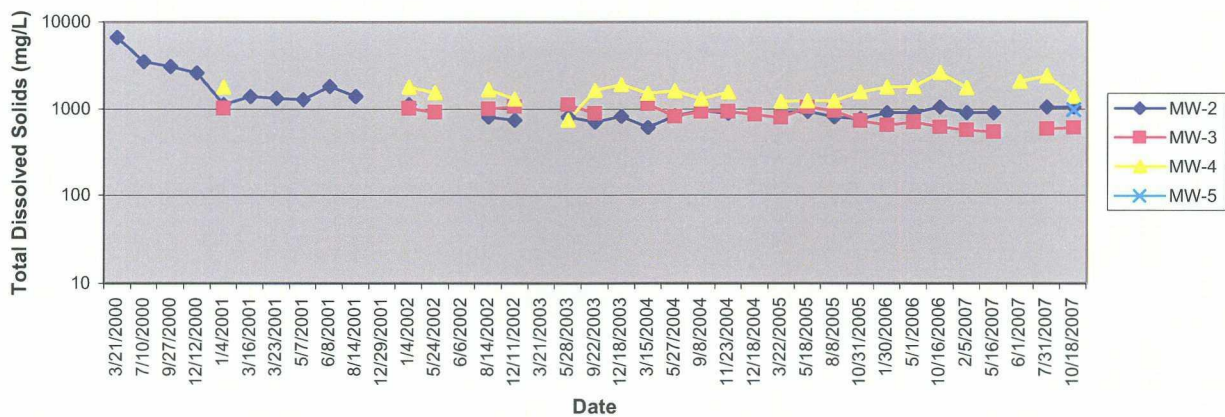
Table 1: chemistry over time

Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	EthylBenzene (mg/L)	Total Xylenes (mg/L)	Comments
MW-4	7/31/2007	54.83	548	248	2380	<0.001	<0.001	<0.001	<0.002	No Odor Sandy Well Pumps Off
MW-4	10/18/2007	54.90	440	211	1394	<0.001	<0.001	<0.001	<0.003	No odor Sandy Well pumps off
MW-5	10/18/2007	57.02	268	138	983	<0.001	<0.001	<0.001	<0.003	Clear No odor

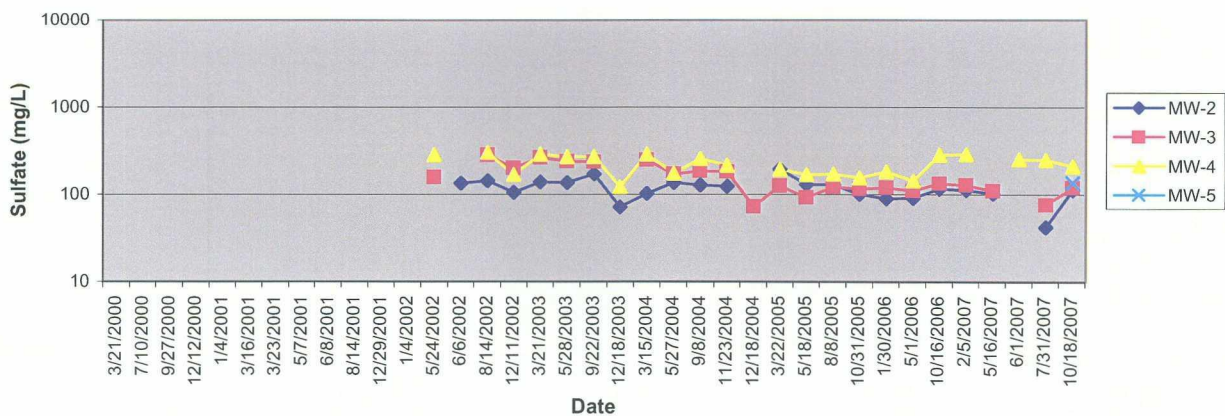
**F-29 SWD
Chloride Over Time**



**F-29 SWD
TDS Over Time**



**F-29 SWD
Sulfate Over Time**



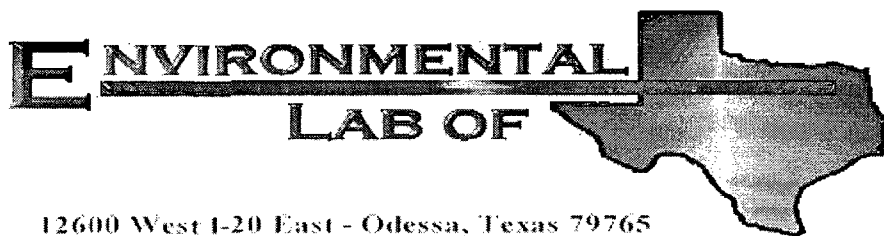
R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW, Suite F-142
Albuquerque, NM 87104
505-266-5004

Ground Water Chemistry

Rice Operating Company
2007 Annual Report

F-29 SWD

1/24/2008



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: Hobbs F-29 SWD

Project Number: None Given

Location: T18S R38E Sec29 F ~ Lea County New Mexico

Lab Order Number: 7B09002

Report Date: 02/16/07

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

Project: Hobbs F-29 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 #2	7B09002-01	Water	02/05/07 09:20	02-08-2007 16:50
Monitor Well #3	7B09002-02	Water	02/05/07 10:10	02-08-2007 16:50
Monitor Well #4	7B09002-03	Water	02/05/07 11:30	02-08-2007 16:50

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

Project: Hobbs F-29 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 #2 (7B09002-01) Water									
Benzene	ND	0.00100	mg/L	1	EB71004	02/10/07	02/13/07	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>		88.4 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		87.8 %	80-120		"	"	"	"	

Monitor Well #3 (7B09002-02) Water

Benzene	ND	0.00100	mg/L	1	EB71004	02/10/07	02/13/07	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>		93.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		92.0 %	80-120		"	"	"	"	

Monitor Well #4 (7B09002-03) Water

Benzene	ND	0.00100	mg/L	1	EB71004	02/10/07	02/13/07	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>		88.2 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		88.4 %	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 10

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

Project: Hobbs F-29 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 #2 (7B09002-01) Water									
Total Alkalinity	228	2.00	mg/L	1	EB71213	02/10/07	02/10/07	EPA 310.1M	
Chloride	299	10.0	"	20	EB71202	02/12/07	02/13/07	EPA 300.0	
Total Dissolved Solids	908	10.0	"	1	EB71003	02/09/07	02/10/07	EPA 160.1	
Sulfate	112	10.0	"	20	EB71202	02/12/07	02/13/07	EPA 300.0	
Monitor Well #3 (7B09002-02) Water									
Total Alkalinity	226	2.00	mg/L	1	EB71213	02/10/07	02/10/07	EPA 310.1M	
Chloride	98.3	5.00	"	10	EB71202	02/12/07	02/13/07	EPA 300.0	
Total Dissolved Solids	572	10.0	"	1	EB71003	02/09/07	02/10/07	EPA 160.1	
Sulfate	128	5.00	"	10	EB71202	02/12/07	02/13/07	EPA 300.0	
Monitor Well #4 (7B09002-03) Water									
Total Alkalinity	238	2.00	mg/L	1	EB71213	02/10/07	02/10/07	EPA 310.1M	
Chloride	653	12.5	"	25	EB71202	02/12/07	02/13/07	EPA 300.0	
Total Dissolved Solids	1750	10.0	"	1	EB71003	02/09/07	02/10/07	EPA 160.1	
Sulfate	289	12.5	"	25	EB71202	02/12/07	02/13/07	EPA 300.0	

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 3 of 10

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

Project: Hobbs F-29 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
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Monitor Well #2 (7B09002-01) Water

Calcium	137	4.05	mg/L	50	EB70903	02/09/07	02/09/07	EPA 6010B	
Magnesium	26.3	0.360	"	10	"	"	"	"	
Potassium	2.58	0.600	"	"	"	"	"	"	
Sodium	110	2.15	"	50	"	"	"	"	

Monitor Well #3 (7B09002-02) Water

Calcium	100	4.05	mg/L	50	EB70903	02/09/07	02/09/07	EPA 6010B	
Magnesium	16.4	0.360	"	10	"	"	"	"	
Potassium	2.05	0.600	"	"	"	"	"	"	
Sodium	53.8	2.15	"	50	"	"	"	"	

Monitor Well #4 (7B09002-03) Water

Calcium	298	4.05	mg/L	50	EB70903	02/09/07	02/09/07	EPA 6010B	
Magnesium	46.8	0.360	"	10	"	"	"	"	
Potassium	3.56	0.600	"	"	"	"	"	"	
Sodium	186	2.15	"	50	"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories Company

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Page 4 of 10

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

Project: Hobbs F-29 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 EB71004 - EPA 5030C (GC)

Blank (EB71004-BLK1)

Prepared: 02/10/07 Analyzed: 02/11/07

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	41.6		ug/l	50.0		83.2	80-120			
Surrogate: 4-Bromofluorobenzene	41.1		"	50.0		82.2	80-120			

LCS (EB71004-BS1)

Prepared: 02/10/07 Analyzed: 02/11/07

Benzene	0.0583	0.00100	mg/L	0.0500		117	80-120			
Toluene	0.0563	0.00100	"	0.0500		113	80-120			
Ethylbenzene	0.0512	0.00100	"	0.0500		102	80-120			
Xylene (p/m)	0.116	0.00100	"	0.100		116	80-120			
Xylene (o)	0.0495	0.00100	"	0.0500		99.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	46.5		ug/l	50.0		93.0	80-120			
Surrogate: 4-Bromofluorobenzene	51.4		"	50.0		103	80-120			

Calibration Check (EB71004-CCV1)

Prepared: 02/10/07 Analyzed: 02/11/07

Benzene	55.6		ug/l	50.0		111	80-120			
Toluene	52.3		"	50.0		105	80-120			
Ethylbenzene	48.1		"	50.0		96.2	80-120			
Xylene (p/m)	97.0		"	100		97.0	80-120			
Xylene (o)	41.5		"	50.0		83.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	44.2		"	50.0		88.4	80-120			
Surrogate: 4-Bromofluorobenzene	42.1		"	50.0		84.2	80-120			

Matrix Spike (EB71004-MS1)

Source: 7B08013-01

Prepared: 02/10/07 Analyzed: 02/12/07

Benzene	0.0593	0.00100	mg/L	0.0500	ND	119	80-120			
Toluene	0.0597	0.00100	"	0.0500	ND	119	80-120			
Ethylbenzene	0.0595	0.00100	"	0.0500	ND	119	80-120			
Xylene (p/m)	0.124	0.00100	"	0.100	ND	124	80-120			M1
Xylene (o)	0.0552	0.00100	"	0.0500	ND	110	80-120			
Surrogate: a,a,a-Trifluorotoluene	58.2		ug/l	50.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	58.5		"	50.0		117	80-120			

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

Project: Hobbs F-29 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 EB71004 - EPA 5030C (GC)

Matrix Spike Dup (EB71004-MSD1)

Source: 7B08013-01

Prepared: 02/10/07 Analyzed: 02/12/07

Benzene	0.0592	0.00100	mg/L	0.0500	ND	118	80-120	0.844	20	
Toluene	0.0587	0.00100	"	0.0500	ND	117	80-120	1.69	20	
Ethylbenzene	0.0570	0.00100	"	0.0500	ND	114	80-120	4.29	20	
Xylene (p/m)	0.118	0.00100	"	0.100	ND	118	80-120	4.96	20	
Xylene (o)	0.0524	0.00100	"	0.0500	ND	105	80-120	4.65	20	
Surrogate: a,a,a-Trifluorotoluene	55.6		ug/l	50.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	59.8		"	50.0		120	80-120			

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Page 6 of 10

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

Project: Hobbs F-29 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 EB71003 - Filtration Preparation

Blank (EB71003-BLK1)

Prepared: 02/09/07 Analyzed: 02/10/07

Total Dissolved Solids ND 10.0 mg/L

Duplicate (EB71003-DUP1)

Source: 7B09002-01

Prepared: 02/09/07 Analyzed: 02/10/07

Total Dissolved Solids 852 10.0 mg/L 908 6.36 20

Duplicate (EB71003-DUP2)

Source: 7B09006-02

Prepared: 02/09/07 Analyzed: 02/10/07

Total Dissolved Solids 1550 10.0 mg/L 1420 8.75 20

Batch EB71202 - General Preparation (WetChem)

Blank (EB71202-BLK2)

Prepared: 02/12/07 Analyzed: 02/13/07

Chloride ND 0.500 mg/L

Sulfate ND 0.500 "

LCS (EB71202-BS1)

Prepared: 02/12/07 Analyzed: 02/13/07

Sulfate 11.1 0.500 mg/L 10.0 111 80-120

Chloride 10.5 0.500 " 10.0 105 80-120

Calibration Check (EB71202-CCV1)

Prepared: 02/12/07 Analyzed: 02/13/07

Chloride 10.3 mg/L 10.0 103 80-120

Sulfate 10.1 " 10.0 101 80-120

Duplicate (EB71202-DUP1)

Source: 7B09002-01RE1

Prepared: 02/12/07 Analyzed: 02/13/07

Chloride 33.3 10.0 mg/L 36.8 9.99 20

Sulfate 20.3 10.0 " 21.0 3.39 20

Duplicate (EB71202-DUP2)

Source: 7B09006-02

Prepared: 02/12/07 Analyzed: 02/13/07

Sulfate 265 12.5 mg/L 268 1.13 20

Chloride 566 12.5 " 576 1.75 20

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

Project: Hobbs F-29 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 EB71202 - General Preparation (WetChem)

Matrix Spike (EB71202-MS1)

Source: 7B09002-01RE1

Prepared: 02/12/07 Analyzed: 02/13/07

Sulfate	256	10.0	mg/L	200	21.0	118	80-120			
Chloride	255	10.0	"	200	36.8	109	80-120			

Matrix Spike (EB71202-MS2)

Source: 7B09006-02

Prepared: 02/12/07 Analyzed: 02/13/07

Chloride	845	12.5	mg/L	250	576	108	80-120			
Sulfate	533	12.5	"	250	268	106	80-120			

Batch EB71213 - General Preparation (WetChem)

Blank (EB71213-BLK1)

Prepared & Analyzed: 02/10/07

Total Alkalinity	ND	2.00	mg/L							
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LCS (EB71213-BS1)

Prepared & Analyzed: 02/10/07

Bicarbonate Alkalinity	194	2.00	mg/L	200		97.0	85-115			
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Duplicate (EB71213-DUP1)

Source: 7B09002-01

Prepared & Analyzed: 02/10/07

Total Alkalinity	226	2.00	mg/L		228			0.881	20	
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Reference (EB71213-SRM1)

Prepared & Analyzed: 02/10/07

Total Alkalinity	250		mg/L	250		100	90-110			
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Page 8 of 10

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

Project: Hobbs F-29 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 EB70903 - 6010B/No Digestion

Blank (EB70903-BLK1)

Prepared & Analyzed: 02/09/07

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

Calibration Check (EB70903-CCV1)

Prepared & Analyzed: 02/09/07

Calcium	2.10		mg/L	2.00		105	85-115			
Magnesium	2.17		"	2.00		108	85-115			
Potassium	1.73		"	2.00		86.5	85-115			
Sodium	1.78		"	2.00		89.0	85-115			

Duplicate (EB70903-DUP1)

Source: 7B09002-01

Prepared & Analyzed: 02/09/07

Calcium	139	4.05	mg/L		137			1.45	20	
Magnesium	25.4	0.360	"		26.3			3.48	20	
Potassium	2.51	0.600	"		2.58			2.75	20	
Sodium	108	2.15	"		110			1.83	20	

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Page 9 of 10

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

Project: Hobbs F-29 SWD
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:

2/16/2007

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: RIVE OP.
 Date/ Time: 2/8/07 4:50
 Lab ID #: 7B69002
 Initials: CL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	2.5 °C
#2	Shipping container in good condition?	Yes	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
#4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
#5	Chain of Custody present?	Yes	No	
#6	Sample instructions complete of Chain of Custody?	Yes	No	
#7	Chain of Custody signed when relinquished/ received?	Yes	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
#9	Container label(s) legible and intact?	Yes	No	Not Applicable
#10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
#11	Containers supplied by ELOT?	Yes	No	
#12	Samples in proper container/ bottle?	Yes	No	See Below
#13	Samples properly preserved?	Yes	No	See Below
#14	Sample bottles intact?	Yes	No	
#15	Preservations documented on Chain of Custody?	Yes	No	
#16	Containers documented on Chain of Custody?	Yes	No	
#17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
#18	All samples received within sufficient hold time?	Yes	No	See Below
#19	Subcontract of sample(s)?	Yes	No	Not Applicable
#20	VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

☐

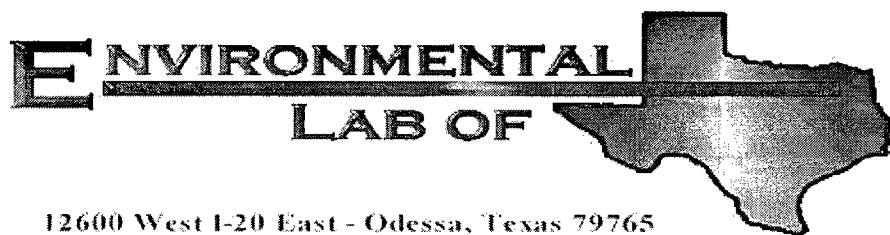
See attached e-mail/ fax

☐

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: Hobbs F-29 SWD

Project Number: None Given

Location: T18S R38E Sec29 F ~ Lea County New Mexico

Lab Order Number: 7F06018

Report Date: 06/20/07

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

Project: Hobbs F-29 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	7F06018-01	Water	06/01/07 15:20	06-06-2007 12:51

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

Project: Hobbs F-29 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 (7F06018-01) Water									
Benzene	ND	0.00100	mg/L	1	EF70802	06/08/07	06/09/07	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>		119 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: Hobbs F-29 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 (7F06018-01) Water									
Total Alkalinity	196	2.00	mg/L	1	EF71309	06/13/07	06/13/07	EPA 310.1M	
Chloride	668	12.5	"	25	EF71203	06/12/07	06/12/07	EPA 300.0	
Total Dissolved Solids	2060	10.0	"	1	EF71110	06/07/07	06/11/07	EPA 160.1	
Sulfate	254	12.5	"	25	EF71203	06/12/07	06/12/07	EPA 300.0	

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

Project: Hobbs F-29 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 (7F06018-01) Water									
Calcium	256	4.05	mg/L	50	EF70807	06/08/07	06/08/07	EPA 6010B	
Magnesium	43.0	0.360	"	10	"	"	"	"	
Potassium	3.03	0.600	"	"	"	"	"	"	
Sodium	152	2.15	"	50	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 10

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

Project: Hobbs F-29 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 EF70802 - EPA 5030C (GC)

Blank (EF70802-BLK1)

Prepared & Analyzed: 06/08/07

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	54.1		ug/l	50.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	45.4		"	50.0		90.8	80-120			

LCS (EF70802-BS1)

Prepared & Analyzed: 06/08/07

Benzene	0.0548	0.00100	mg/L	0.0500		110	80-120			
Toluene	0.0556	0.00100	"	0.0500		111	80-120			
Ethylbenzene	0.0543	0.00100	"	0.0500		109	80-120			
Xylene (p/m)	0.101	0.00100	"	0.100		101	80-120			
Xylene (o)	0.0569	0.00100	"	0.0500		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	54.6		ug/l	50.0		109	80-120			
Surrogate: 4-Bromofluorobenzene	51.7		"	50.0		103	80-120			

Calibration Check (EF70802-CCV1)

Prepared: 06/08/07 Analyzed: 06/09/07

Benzene	0.0576		mg/L	0.0500		115	80-120			
Toluene	0.0567		"	0.0500		113	80-120			
Ethylbenzene	0.0537		"	0.0500		107	80-120			
Xylene (p/m)	0.0999		"	0.100		99.9	80-120			
Xylene (o)	0.0573		"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	57.9		ug/l	50.0		116	80-120			
Surrogate: 4-Bromofluorobenzene	53.0		"	50.0		106	80-120			

Matrix Spike (EF70802-MS1)

Source: 7F06019-03

Prepared: 06/08/07 Analyzed: 06/09/07

Benzene	0.0598	0.00100	mg/L	0.0500	ND	120	80-120			
Toluene	0.0593	0.00100	"	0.0500	ND	119	80-120			
Ethylbenzene	0.0584	0.00100	"	0.0500	ND	117	80-120			
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120			
Xylene (o)	0.0614	0.00100	"	0.0500	ND	123	80-120			MI
Surrogate: a,a,a-Trifluorotoluene	58.4		ug/l	50.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	56.2		"	50.0		112	80-120			

Environmental Lab of Texas

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

Project: Hobbs F-29 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 EF70802 - EPA 5030C (GC)

Matrix Spike Dup (EF70802-MSD1)

Source: 7F06019-03

Prepared: 06/08/07 Analyzed: 06/09/07

Benzene	0.0565	0.00100	mg/L	0.0500	ND	113	80-120	6.01	20	
Toluene	0.0566	0.00100	"	0.0500	ND	113	80-120	5.17	20	
Ethylbenzene	0.0556	0.00100	"	0.0500	ND	111	80-120	5.26	20	
Xylene (p/m)	0.102	0.00100	"	0.100	ND	102	80-120	4.78	20	
Xylene (o)	0.0584	0.00100	"	0.0500	ND	117	80-120	5.00	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	58.3		ug/l	50.0		117	80-120			
Surrogate: 4-Bromofluorobenzene	54.2		"	50.0		108	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: Hobbs F-29 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 EF71110 - General Preparation (WetChem)

Blank (EF71110-BLK1)

Prepared: 06/07/07 Analyzed: 06/11/07

Total Dissolved Solids ND 10.0 mg/L

Duplicate (EF71110-DUP1)

Source: 7F06016-01

Prepared: 06/07/07 Analyzed: 06/11/07

Total Dissolved Solids 1270 10.0 mg/L 1210 4.84 20

Duplicate (EF71110-DUP2)

Source: 7F06019-03

Prepared: 06/07/07 Analyzed: 06/11/07

Total Dissolved Solids 7020 10.0 mg/L 6900 1.72 20

Batch EF71203 - General Preparation (WetChem)

Blank (EF71203-BLK1)

Prepared & Analyzed: 06/12/07

Sulfate ND 0.500 mg/L

Chloride ND 0.500 "

LCS (EF71203-BS1)

Prepared & Analyzed: 06/12/07

Chloride 9.91 0.500 mg/L 10.0 99.1 80-120

Sulfate 9.45 0.500 " 10.0 94.5 80-120

Calibration Check (EF71203-CCV1)

Prepared & Analyzed: 06/12/07

Sulfate 12.0 mg/L 10.0 120 80-120

Chloride 9.55 " 10.0 95.5 80-120

Duplicate (EF71203-DUP1)

Source: 7F05004-01

Prepared & Analyzed: 06/12/07

Chloride 289 5.00 mg/L 282 2.45 20

Sulfate 586 5.00 " 586 0.00 20

Duplicate (EF71203-DUP2)

Source: 7F06017-01

Prepared & Analyzed: 06/12/07

Chloride 428 10.0 mg/L 401 6.51 20

Sulfate 456 10.0 " 438 4.03 20

Environmental Lab of Texas

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Page 7 of 10

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

Project: Hobbs F-29 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 EF71203 - General Preparation (WetChem)

Matrix Spike (EF71203-MS1)		Source: 7F05004-01		Prepared & Analyzed: 06/12/07						
Chloride	378	5.00	mg/L	100	282	96.0	80-120			
Sulfate	661	5.00	"	100	586	75.0	80-120			QM-10

Matrix Spike (EF71203-MS2)		Source: 7F06017-01		Prepared & Analyzed: 06/12/07						
Sulfate	654	10.0	mg/L	200	438	108	80-120			
Chloride	623	10.0	"	200	401	111	80-120			

Batch EF71309 - General Preparation (WetChem)

Blank (EF71309-BLK1)		Prepared & Analyzed: 06/13/07								
Total Alkalinity	ND	2.00	mg/L							
Carbonate Alkalinity	ND	0.100	"							
Bicarbonate Alkalinity	ND	2.00	"							
Hydroxide Alkalinity	ND	0.100	"							

LCS (EF71309-BS1)		Prepared & Analyzed: 06/13/07								
Bicarbonate Alkalinity	174	2.00	mg/L	200		87.0	85-115			

Duplicate (EF71309-DUP1)		Source: 7F06017-02		Prepared & Analyzed: 06/13/07						
Total Alkalinity	348	2.00	mg/L		348			0.00	20	

Reference (EF71309-SRM1)		Prepared & Analyzed: 06/13/07								
Total Alkalinity	250		mg/L	250		100	90-110			

Environmental Lab of Texas

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Page 8 of 10

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

Project: Hobbs F-29 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 EF70807 - 6010B/No Digestion

Blank (EF70807-BLK1)

Prepared & Analyzed: 06/08/07

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

Calibration Check (EF70807-CCV1)

Prepared & Analyzed: 06/08/07

Calcium	1.78		mg/L	2.00		89.0	85-115			
Magnesium	1.83		"	2.00		91.5	85-115			
Potassium	2.28		"	2.00		114	85-115			
Sodium	1.82		"	2.00		91.0	85-115			

Duplicate (EF70807-DUP1)

Source: 7F05011-03

Prepared & Analyzed: 06/08/07

Calcium	139	4.05	mg/L		139			0.00	20	
Magnesium	29.5	0.360	"		29.8			1.01	20	
Potassium	6.37	0.600	"		6.57			3.09	20	
Sodium	121	2.15	"		124			2.45	20	

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Page 9 of 10

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

Project: Hobbs F-29 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

QM-10 LCS/LCSD were analyzed in place of MS/MSD.
MI 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:

6/20/2007

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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Page 10 of 10

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice
 Date/ Time: 6-6-07 12:51
 Lab ID #: 7F06018
 Initials: AL

Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	<u>Yes</u>	No	<u>2.0</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	<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

Analytical Report 287159

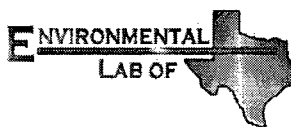
for

Rice Operating Co.

Project Manager: Kristin Pope

Hobbs F-29 SWD

13-AUG-07



12600 West I-20 East Odessa, Texas 79765

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NELAC certification numbers:

Houston, TX E871002 - Miami, FL E86678 - Tampa, FL E86675

Houston - Dallas - San Antonio - Austin - Tampa - Miami - Latin America



13-AUG-07

Project Manager: **Kristin Pope**
Rice Operating Co.
122 West Taylor
Hobbs, NM 88240

Reference: XENCO Report No: **287159**

Hobbs F-29 SWD

Project Address: T18S R38E Sec29 F ~ Lea County New Mexico

Kristin Pope:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 287159. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 287159 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron

Odessa Laboratory Director

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Certificate of Analysis Summary 287159

Rice Operating Co., Hobbs, NM



Project Name: Hobbs F-29 SWD

Project Id:

Date Received in Lab Aug-02-07 12:50 pm

Contact: Kristin Pope

Report Date: 13-AUG-07

Project Location: T18S R38E Sec29 F ~ Lea County New M

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	287159-001	287159-002	287159-003	
	Field Id:	Monitor Well # 2	Monitor Well # 3	Monitor Well # 4	
	Depth:				
	Matrix:	WATER	WATER	WATER	
	Sampled:	Jul-31-07 09:50	Jul-31-07 08:40	Jul-31-07 11:10	
Alkalinity by EPA 310.1	Extracted:				
	Analyzed:	Aug-07-07 13:00	Aug-07-07 13:00	Aug-07-07 13:00	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Alkalinity, Total (as CaCO3)		210 4.00	260 4.00	212 4.00	
BTEX by EPA 8021B	Extracted:	Aug-02-07 16:55	Aug-02-07 16:55	Aug-02-07 16:55	
	Analyzed:	Aug-05-07 18:21	Aug-05-07 18:42	Aug-05-07 19:03	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Benzene		ND 0.0010	ND 0.0010	ND 0.0010	
Toluene		ND 0.0010	ND 0.0010	ND 0.0010	
Ethylbenzene		ND 0.0010	ND 0.0010	ND 0.0010	
m,p-Xylene		0.0022 0.0020	ND 0.0020	ND 0.0020	
o-Xylene		0.0011 0.0010	ND 0.0010	ND 0.0010	
Total Xylenes		0.0033	ND	ND	
Total BTEX		0.0033	ND	ND	
Inorganic Anions by EPA 300	Extracted:				
	Analyzed:	Aug-07-07 11:48	Aug-07-07 11:48	Aug-07-07 11:48	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Chloride		272 5.00	105 5.00	548 12.5	
Sulfate		41.9 5.00	76.5 5.00	248 12.5	
Metals per ICP by SW846 6010B	Extracted:				
	Analyzed:	Aug-03-07 14:39	Aug-03-07 14:39	Aug-03-07 14:39	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Calcium		182 0.100	109 0.100	345 0.100	
Magnesium		2.10 0.010	15.3 0.010	40.7 0.010	
Potassium		3.55 0.500	1.36 0.500	2.75 0.500	
Sodium		65.8 0.500	35.6 0.500	135 0.500	
Residue, Filterable (TDS) by EPA 160.1	Extracted:				
	Analyzed:	Aug-06-07 16:20	Aug-06-07 16:20	Aug-06-07 16:20	
	Units/RL:	mg/L RL	mg/L RL	mg/L RL	
Total dissolved solids		1040 5.00	590 5.00	2380 5.00	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron
Odessa Laboratory Director



Flagging Criteria

- X** In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F** RPD exceeded lab control limits.
- J** The target analyte was positively identified below the MQL and above the SQL.
- U** Analyte was not detected.
- L** The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K** Sample analyzed outside of recommended hold time.

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(305) 823-8500	(305) 823-8555



Form 2 - Surrogate Recoveries



Project Name: Hobbs F-29 SWD

Work Order #: 287159

Project ID:

Lab Batch #: 701934

Sample: 287159-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0421	0.0500	84	80-120	

Lab Batch #: 701934

Sample: 287159-002 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0433	0.0500	87	80-120	

Lab Batch #: 701934

Sample: 287159-003 / SMP

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0447	0.0500	89	80-120	

Lab Batch #: 701934

Sample: 287160-002 S / MS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0495	0.0500	99	80-120	

Lab Batch #: 701934

Sample: 287160-002 SD / MSD

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0457	0.0500	91	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 \times A / B$

All results are based on MDL and validated for QC purposes.



Form 2 - Surrogate Recoveries

Project Name: Hobbs F-29 SWD



Work Order #: 287159

Project ID:

Lab Batch #: 701934

Sample: 497877-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0497	0.0500	99	80-120	

Lab Batch #: 701934

Sample: 497877-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

SURROGATE RECOVERY STUDY					
BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery % R [D]	Control Limits % R	Flags
Analytes					
4-Bromofluorobenzene	0.0467	0.0500	93	80-120	

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = $100 * A / B$

All results are based on MDL and validated for QC purposes.



Blank Spike Recovery



Project Name: Hobbs F-29 SWD

Work Order #: 287159

Project ID:

Lab Batch #: 701789

Sample: 701789-1-BKS

Matrix: Water

Date Analyzed: 08/07/2007

Date Prepared: 08/07/2007

Analyst: WRU

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Alkalinity by EPA 310.1	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags
Analytes						
Alkalinity, Total (as CaCO ₃)	ND	200	194	97	80-120	

Lab Batch #: 701934

Sample: 497877-1-BKS

Matrix: Water

Date Analyzed: 08/05/2007

Date Prepared: 08/04/2007

Analyst: CELKEE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

BTEX by EPA 8021B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags
Analytes						
Benzene	ND	0.0500	0.0512	102	70-125	
Toluene	ND	0.0500	0.0531	106	70-125	
Ethylbenzene	ND	0.0500	0.0573	115	71-129	
m,p-Xylene	ND	0.1000	0.1029	103	70-131	
o-Xylene	ND	0.0500	0.0554	111	71-133	

Lab Batch #: 701864

Sample: 701864-1-BKS

Matrix: Water

Date Analyzed: 08/07/2007

Date Prepared: 08/07/2007

Analyst: IRO

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags
Analytes						
Chloride	ND	10.0	9.03	90	90-110	
Sulfate	ND	10.0	9.63	96	90-110	

Lab Batch #: 701571

Sample: 701571-1-BKS

Matrix: Water

Date Analyzed: 08/03/2007

Date Prepared: 08/03/2007

Analyst: LATCOR

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

Metals per ICP by SW846 6010B	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike % R [D]	Control Limits % R	Flags
Analytes						
Calcium	ND	2.00	1.83	92	75-125	
Magnesium	ND	2.00	2.08	104	75-125	
Potassium	ND	2.00	2.28	114	75-125	
Sodium	ND	2.00	1.94	97	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]

All results are based on MDL and validated for QC purposes.



Form 3 - MS Recoveries

Project Name: Hobbs F-29 SWD



Work Order #: 287159

Lab Batch #: 701864

Date Analyzed: 08/07/2007

QC- Sample ID: 287159-003 S

Date Prepared: 08/07/2007

Project ID:

Analyst: IRO

Batch #: 1

Matrix: Water

Reporting Units: mg/L

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	548	250	862	126	90-110	X

Matrix Spike Percent Recovery [D] = $100 \times (C-A)/B$

Relative Percent Difference [E] = $200 \times (C-A)/(C+B)$

All Results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries

Project Name: Hobbs F-29 SWD



Work Order # 287159

Lab Batch ID: 701934

Date Analyzed: 08/05/2007

Reporting Units: mg/L

Project ID:

QC- Sample ID: 287160-002 S Batch #: 1 Matrix: Water

Date Prepared: 08/04/2007 Analyst: CELKEE

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY											
BTEX by EPA 8021B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Benzene	ND	0.0500	0.0510	102	0.0500	0.0510	102	0	70-125	25
	Toluene	ND	0.0500	0.0528	106	0.0500	0.0528	106	0	70-125	25
	Ethylbenzene	ND	0.0500	0.0573	115	0.0500	0.0562	112	3	71-129	25
	m,p-Xylene	ND	0.1000	0.1023	102	0.1000	0.0994	99	3	70-131	25
	o-Xylene	ND	0.0500	0.0554	111	0.0500	0.0536	107	4	71-133	25

Matrix Spike Percent Recovery $[D] = 100 * (C-A) / B$
Relative Percent Difference $RPD = 200 * (D-G) / (D+G)$

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit

Matrix Spike Duplicate Percent Recovery $[G] = 100 * (F-A) / E$



Sample Duplicate Recovery



Project Name: Hobbs F-29 SWD

Work Order #: 287159

Lab Batch #: 701789

Date Analyzed: 08/07/2007

QC- Sample ID: 287122-001 D

Reporting Units: mg/L

Project ID:

Analyst: WRU

Date Prepared: 08/07/2007

Batch #: 1

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Alkalinity by EPA 310.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Alkalinity, Total (as CaCO ₃)	216	216	0	20	

Lab Batch #: 701571

Date Analyzed: 08/03/2007

QC- Sample ID: 287179-001 D

Reporting Units: mg/L

Date Prepared: 08/03/2007

Batch #: 1

Analyst: LATCOR

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Metals per ICP by SW846 6010B	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Calcium	301	285	5	25	
Magnesium	120	134	11	25	
Potassium	20.1	15.8	24	25	
Sodium	284	265	7	25	

Lab Batch #: 701790

Date Analyzed: 08/06/2007

QC- Sample ID: 287122-001 D

Reporting Units: mg/L

Date Prepared: 08/06/2007

Batch #: 1

Analyst: IRO

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Residue, Filterable (TDS) by EPA 160.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	754	784	4	30	

Lab Batch #: 701790

Date Analyzed: 08/06/2007

QC- Sample ID: 287348-002 D

Reporting Units: mg/L

Date Prepared: 08/06/2007

Batch #: 1

Analyst: IRO

Matrix: Water

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Residue, Filterable (TDS) by EPA 160.1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Total dissolved solids	6250	6290	1	30	

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$
All Results are based on MDL and validated for QC purposes.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: Hobbs F-29 SWD

Project #:

Project Loc: T18S R38E Sec29 F ~ Lea County New Mexico

附

(505) 397-1471

Report Format:

rozanne@valornet.com

2827159

[illegible]

Please email to : kpope@riceswd.com

rozanne@valornet.com

Laboratory Comments:

Sample Containers Intact?

Date: _____

Received by:

Time

Date,

Received by:

Time	
------	--

Date 1/27/1

Received by ELO

Time	
------	--

2011

7

17.5	17.5
17.5	17.5

Temperature Upon Receipt

9
V

9
v

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice
 Date/ Time: 8-2-07 12:50
 Lab ID #: 287159
 Initials: gv

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 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 (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: (575) 397-1471

Receiving Date: 10/22/07
Reporting Date: 10/26/07
Project Number: NOT GIVEN
Project Name: HOBBS F-29 SWD
Project Location: T18S-R38E-SEC29 F~LEA COUNTY, NM

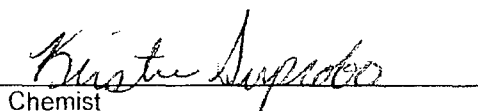
Sampling Date: 10/18/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: HM/KS

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		10/26/07	10/25/07	10/25/07	10/25/07	10/24/07	10/24/07
H13552-1	MONITOR WELL #2	104	160	30.3	1.72	1,560	224
H13552-2	MONITOR WELL #3	71	81.2	24.2	1.14	911	192
H13552-3	MONITOR WELL #4	161	203	44.4	2.59	2,130	204
H13552-4	MONITOR WELL #5	147	129	24.2	2.77	1,542	224
Quality Control		NR	49.2	51.6	2.73	1,386	NR
True Value QC		NR	50.0	50.0	3.00	1,404	NR
% Recovery		NR	98.4	103	91.0	98.7	NR
Relative Percent Difference		NR	< 0.1	< 0.1	6.7	1.3	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:		10/25/07	10/26/07	10/24/07	10/24/07	10/24/07	10/24/07
H13552-1	MONITOR WELL #2	292	113	0	273	7.06	1,047
H13552-2	MONITOR WELL #3	100	120	0	234	7.28	611
H13552-3	MONITOR WELL #4	440	211	0	249	7.26	1,394
H13552-4	MONITOR WELL #5	268	138	0	273	7.45	983
Quality Control		500	23.5	NR	1000	6.97	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		100	93.9	NR	100	99.6	NR
Relative Percent Difference		2.0	12.5	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

10/26/07
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. No holder 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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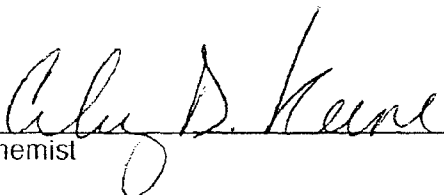
ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 WEST TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

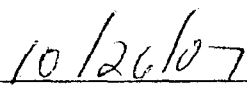
Receiving Date: 10/22/07
Reporting Date: 10/24/07
Project Number: NOT GIVEN
Project Name: HOBBS F-29 SWD
Project Location: T18S R38E SEC29 F - LEA COUNTY, NM

Sampling Date: 10/18/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		10/23/07	10/23/07	10/23/07	10/23/07
H13552-1	MONITOR WELL #2	<0.001	<0.001	<0.001	<0.003
H13552-2	MONITOR WELL #3	<0.001	<0.001	<0.001	<0.003
H13552-3	MONITOR WELL #4	<0.001	<0.001	<0.001	<0.003
H13552-4	MONITOR WELL #5	<0.001	<0.001	<0.001	<0.003
Quality Control		0.106	0.101	0.102	0.310
True Value QC		0.100	0.100	0.100	0.300
% Recovery		106	101	102	103
Relative Percent Difference		1.8	1.0	1.9	1.0

METHOD: EPA SW-846 8021B


Chemist


Date

H13552b Rice

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.

Cardinal Laboratories, Inc.

101 East Marland - Hobbs, New Mexico 88240
Tel (505) 393-2326
Fax (505) 393-2476

Company Name: RICE Operating Company		PO#	
Project Manager: Kristin Farris-Pope, Project Scientist		Address: 122 W Taylor Street ~ Hobbs, New Mexico 88240	
Address: 122 W Taylor Street ~ Hobbs, New Mexico 88240		Phone#: (505) 393-9174	
Phone #: (505) 393-9174		Fax #: (505) 397-1471	
Project #: (505) 393-9174		Project Name: Hobbs F-29 SWD	
Project Location: T18S-R38E-Sec29 F ~ Lea County - New Mexico			
Sampler Signature: <i>[Signature]</i> Rozanne Johnson (505) 631-9310 rozanne@valornet.com			

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB #	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX	PRESERVATIVE METHOD	SAMPLING DATE (2007)	TIME	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCBs 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24 Hours
H13521	Monitor Well #2	G	3	X				X																		
-2	Monitor Well #3	G	3	X				X																		
-3	Monitor Well #4	G	3	X				X																		
-4	Monitor Well #5	G	3	X				X																		

Relinquished by: <i>[Signature]</i> Rozanne Johnson	Date: 10/24/07	Time: 12:57p	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received By: (Laboratory Staff)	Date:	Time:
Delivered By: (Circle One) Sampler			Sample Condition Yes ☐ No ☒ Intact ☒ No ☐		
UPS - Bus - Other:			CHECKED BY: <i>[Signature]</i> (Initials) <i>AB</i>		

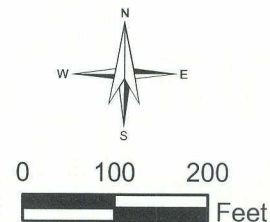
REMARKS:

Email Results to: kpope@riceswd.com
lweinheimer@riceswd.com
rozanne@valornet.com



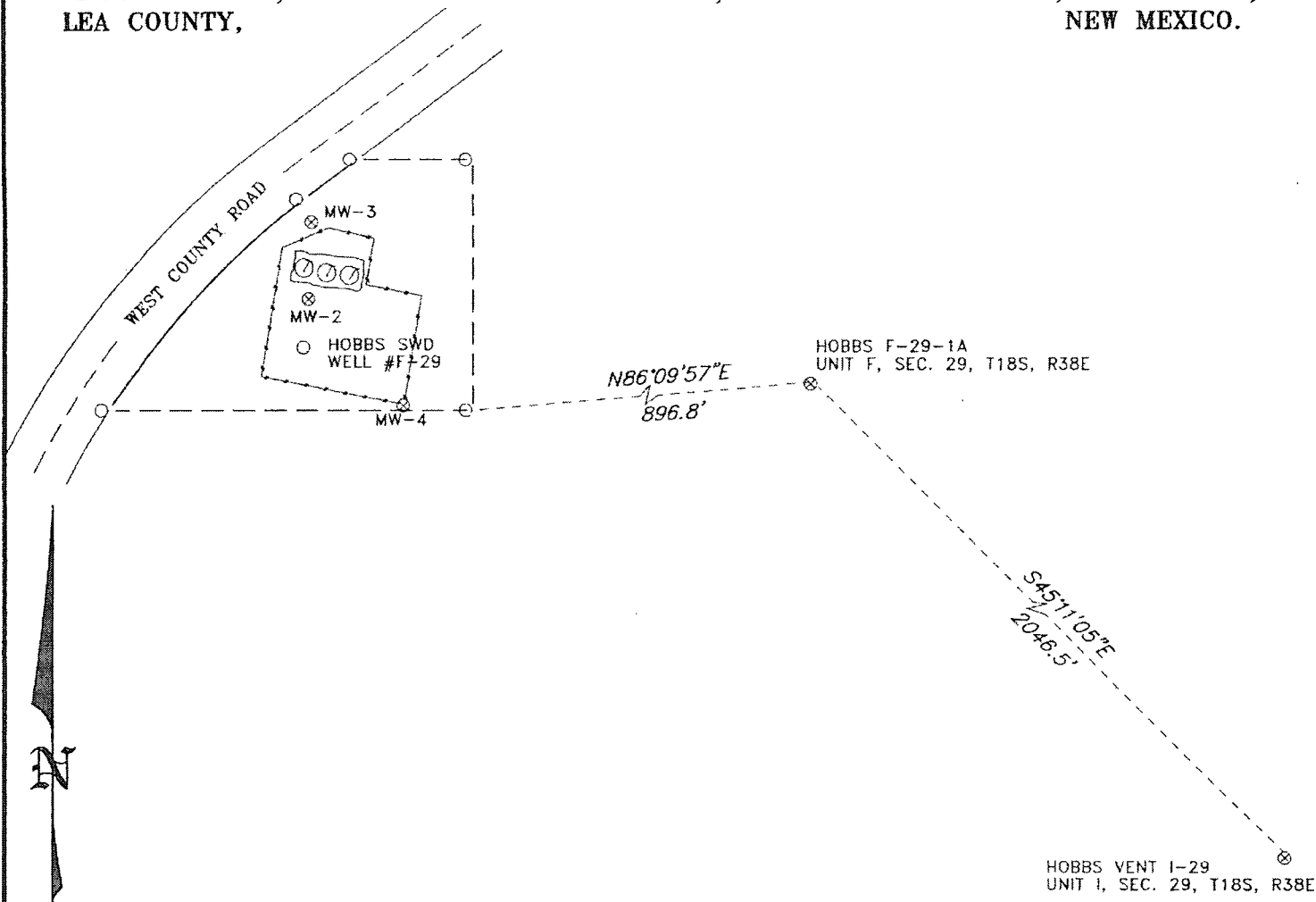
Explanation

-  Monitoring well
Ground water elevation (feet)
-  Potentiometric surface (feet)



R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 Ph: 505.266.5004	Potentiometric Surface (October 2007)	
	Rice Operating Company: F-29 SWD 2007 Annual Report	November 2007

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST, N.M.P.M.,
LEA COUNTY, 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	ELEVATION
MW-2	627819.025	898021.191	N 32°43'14.0"	W 103°10'24.9"	3645.71'
MW-3	627908.779	898025.082	N 32°43'14.9"	W 103°10'24.8"	3645.76'
MW-4	627693.822	898134.408	N 32°43'12.7"	W 103°10'23.6"	3645.76'
HOBBS F-29-1A MARK ON NORTH SIDE OF NORTH 2" PVC	627753.789	899029.184	N 32°43'13.2"	W 103°10'13.1"	3648.89' 3645.5'-GRND
HOBBS F-29-1A MARK ON NORTH SIDE OF SOUTH 2" PVC	627753.579	899029.160	N 32°43'13.2"	W 103°10'13.1"	3648.76' 3645.5'-GRND
HOBBS VENT 1-29 MARK ON NORTH SIDE OF 2" PVC	626311.386	900480.915	N 32°42'58.8"	W 103°09'56.3"	3650.65' 3647.6'-GRND

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.

200 0 200 400 FEET

RICE OPERATING COMPANY

REF: MONITOR WELLS

MONITOR WELLS LOCATED IN

SECTION 29, TOWNSHIP 18 SOUTH, RANGE 38 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

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

W.O. Number: RICE Drawn By: K. GOAD

Date: 02-11-2005 Disk: KJG CD#4 - RICEB.DWG

Survey Date: VARIES

Sheet 1 of 1 Sheets