

AP - 59

G-35

**ANNUAL GW MONITORING
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

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2008 FEB 7 PM 2 41

AP-59
G-35 Annual GW
Mon. Report
2007

January 24, 2008

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

RE: 2007 Annual Ground Water Monitoring Report
G-35 SWD, Sec 35, T17S, R35E, Unit "G"
NMOCD Case #: AP-59

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2007 Annual Ground Water Monitoring Report for the G-35 SWD site located in the Vacuum 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 status report was submitted to NMOCD on September 24, 2007. The vadose zone remedy was installed and the excavation was backfilled according to the approved plan in August of 2007. Revegetation efforts are ongoing. We plan to continue quarterly ground water monitoring 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

Table 1: chemistry over time

G-35 SWD

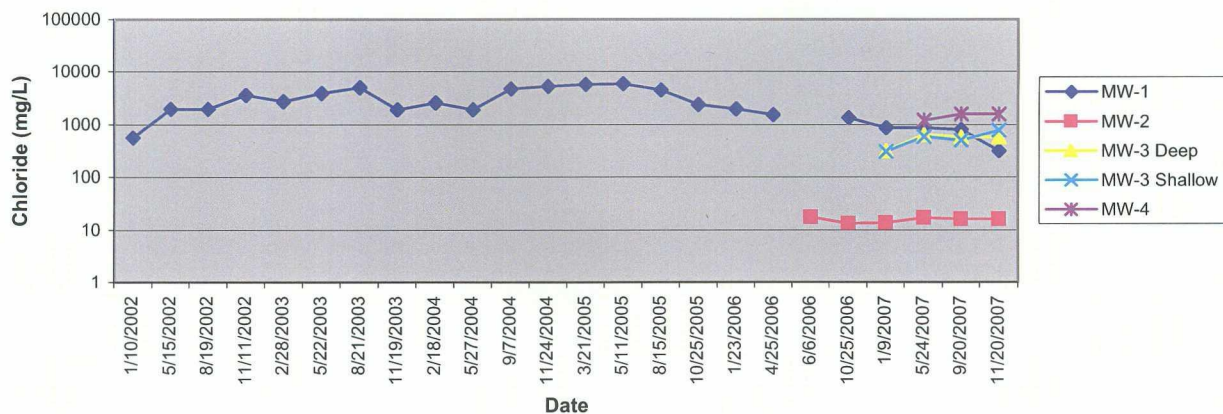
Well Name	Date	DTW (ft)	Chloride (mg/L)	Sulfate (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	EthylBenzene (mg/L)	Total Xylenes (mg/L)	Comments
MW-1	1/10/2002	53.60	568	23	1284	0.011	0.0220	0.034	0.0550	
MW-1	5/15/2002	52.89	1950	2.1	3260	0.414	0.0570	0.131	0.0650	oil skim
MW-1	8/19/2002	53.02	1950	7	3850	0.705	0.5980	0.209	0.2530	
MW-1	11/11/2002	53.08	3630	5.8	6740	0.921	0.0780	0.154	0.1310	oil skim; yellow
MW-1	2/28/2003	53.06	2730	24.6	4770	0.713	0.0100	0.018	0.0270	
MW-1	5/22/2003	53.20	3860	5.3	7320	0.583	0.0020	0.120	0.0270	
MW-1	8/21/2003	53.21	5010	3.5	8850	0.689	0.0040	0.307	0.0320	
MW-1	11/19/2003	53.29	1930	20.9	3590	0.012	0.0020	0.090	0.0030	
MW-1	2/18/2004	53.30	2579	1.49	5000	0.059	<0.002	0.350	0.0070	
MW-1	5/27/2004	52.90	1899	2.15	4188	1.170	0.3080	0.357	0.3190	
MW-1	9/7/2004	52.60	4700	17.7	8270	1.110	0.0525	0.346	0.1382	mod. odor; gray
MW-1	11/24/2004	52.91	5200	799	10400	0.881	0.0226	0.133	0.0717	mod. odor; gray
MW-1	3/21/2005	52.40	5750	136	9190	2.760	0.2470	0.399	0.2862	mod. odor; gray; sheen
MW-1	5/11/2005		5890	9.75	10700	2490	466	672	693	
MW-1	8/15/2005	52.35	4430	126	6960	1.070	0.2260	0.396	0.2417	
MW-1	10/25/2005	52.51	2360	166	4420	0.799	0.0607	0.146	0.0839	light skim oil: strong septic odor
MW-1	1/23/2006	52.46	1960	80.5	3540	0.141	J[0.00537]	0.078	0.0229	light skim oil: strong septic odor
MW-1	4/25/2006	52.70	1540	67.4	3280	0.749	0.0143	0.093	0.0282	
MW-1	10/25/2006	52.88	1350	45.2	2800	0.394	0.0204	0.0774	0.0438	Light
MW-1	1/9/2007	53.08	873	34.6	1950	0.188	<0.001	0.0883	0.00764	Light Skim of Oil Clear turning Dark Gray Strong Septic Odor
MW-1	5/24/2007	53.20	873	41.2	1820	0.143	0.00735	0.0664	0.0227	Light Skim of Oil Clear Turning Dark Gray Strong Septic Odor
MW-1	9/20/2007	53.37	800	22.2	1738	0.189	0.004	0.082	0.029	Light Skim of Oil Clear to Dark Gray with Strong Septic Odor
MW-1	11/20/2007	53.39	320	35.3	969	0.003	<0.002	<0.002	<0.006	Light skim of oil Clear to dark gray Strong septic odor

G-35 SWD

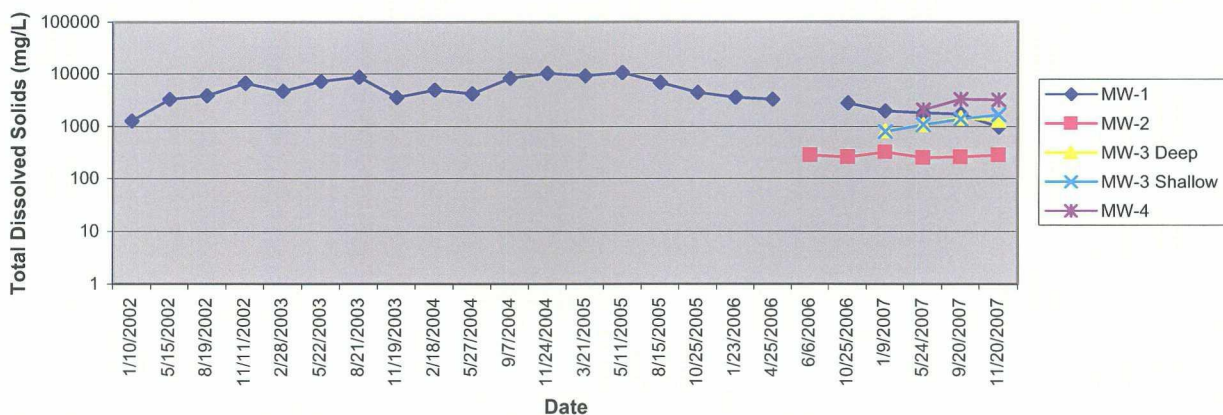
Table 1: chemistry over time

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	6/6/2006	52.08	17.4	24.7	286	<0.001	j[0.000839]	j[0.000385]	0.0044	
MW-2	10/25/2006	52.35	13.4	22.8	264	<0.001	<0.001	<0.001	<0.001	Clear
MW-2	1/9/2007	52.56	13.7	21.7	322	<0.001	j[0.000540]	<0.001	<0.001	Clear No Odor Well Pumps Off
MW-2	5/24/2007	52.66	17.2	20.1	254	<0.001	<0.001	<0.001	<0.001	Clear No Odor Well Pumps Off
MW-2	9/20/2007	52.84	16	25.6	262	<0.002	<0.002	<0.002	<0.006	Clear No Odor Well Pumps Off
MW-2	11/20/2007	52.86	16	25.0	283	<0.002	<0.002	<0.002	<0.006	Clear No odor Well pumps off
MW-3 Deep	1/9/2007	52.77	313	46.5	830	<0.001	0.0136	<0.001	<0.001	Clear Slight Odor
MW-3 Deep	5/24/2007	52.90	648	34.7	1090	<0.001	j[0.000320]	<0.001	<0.001	Clear Slight Odor
MW-3 Deep	9/20/2007	53.11	570	34.0	1442	<0.002	<0.002	<0.002	<0.006	Clear Strong Odor
MW-3 Deep	11/20/2007	53.15	570	42.5	1312	<0.002	<0.002	<0.002	<0.006	Clear Strong odor
MW-3 Shallow	1/9/2007	52.77	311	48.9	804	<0.001	0.0191	<0.001	<0.001	Clear Slight Odor
MW-3 Shallow	5/24/2007	52.90	599	34.5	1070	<0.001	j[0.000380]	<0.001	<0.001	Clear Slight Odor
MW-3 Shallow	9/20/2007	53.11	500	39.1	1373	<0.002	<0.002	<0.002	<0.006	Clear Strong Odor
MW-3 Shallow	11/20/2007	53.15	776	40.4	1670	<0.002	<0.002	<0.002	<0.006	Clear Strong odor
MW-4	5/24/2007	52.98	1200	43.2	2050	0.0521	0.0582	0.0170	0.02819	Clear to Grey Strong Odor Light Sheen of Oil
MW-4	9/20/2007	53.18	1600	17.8	3262	0.146	0.058	0.023	0.042	Clear to Gray Strong Odor Light Sheen of Oil
MW-4	11/20/2007	53.21	1600	26	3256	0.036	0.034	0.01	0.017	Clear turning to gray Strong odor Light sheen of oil

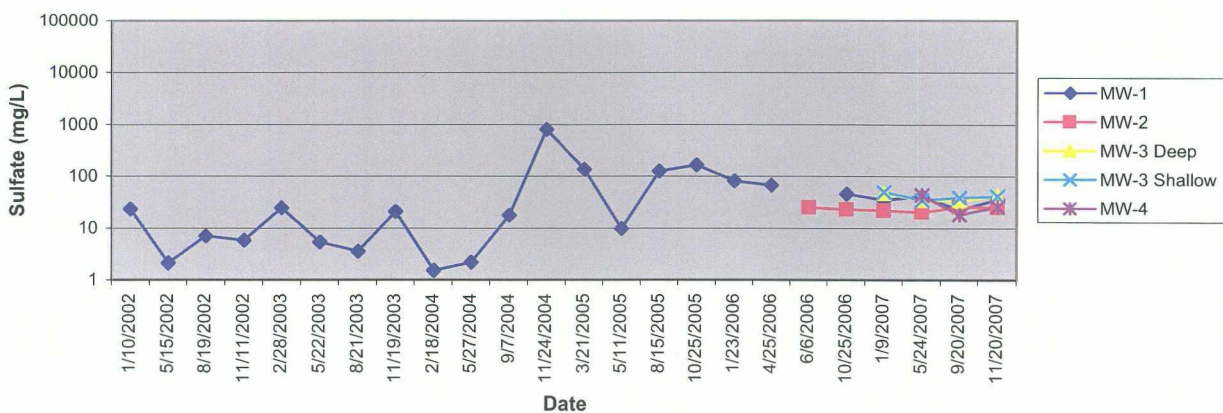
**G-35 SWD
Chloride Over Time**



**G-35 SWD
TDS Over Time**



**G-35 SWD
Sulfate Over Time**



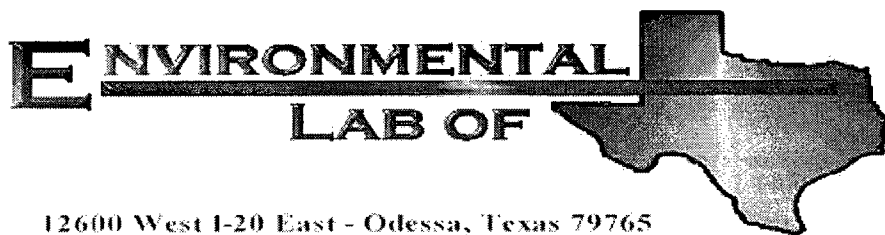
R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW, Suite F-142
Albuquerque, NM 87104
505-266-5004

Ground Water Chemistry

Rice Operating Company
2007 Annual Report

G-35 SWD

1/24/2008



12600 West I-20 East - Odessa, Texas 79765

A Xenco Laboratories, Inc. Company

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Vacuum F-35 SWD & G-35 SWD

Project Number: None Given

Location: T17S-R35E-Sec35 F&G- Lea County, New Mexico

Lab Order Number: 7A12003

Report Date: 01/25/07

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F-35 SWD Monitor Well #1	7A12003-01	Water	01/09/07 11:10	01-12-2007 09:30
F-35 SWD Monitor Well #2	7A12003-02	Water	01/09/07 10:30	01-12-2007 09:30
F-35 SWD Monitor Well #3- Shallow	7A12003-03	Water	01/09/07 13:40	01-12-2007 09:30
F-35 SWD Monitor Well #3- Deep	7A12003-04	Water	01/09/07 14:05	01-12-2007 09:30
G-35 SWD Monitor Well #1	7A12003-05	Water	01/09/07 11:40	01-12-2007 09:30
G-35 SWD Monitor Well #2	7A12003-06	Water	01/09/07 09:25	01-12-2007 09:30
G-35 SWD Monitor Well #3- Shallow	7A12003-07	Water	01/09/07 14:55	01-12-2007 09:30
G-35 SWD Monitor Well #3- Deep	7A12003-08	Water	01/09/07 15:30	01-12-2007 09:30

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (7A12003-01) Water									
Total Alkalinity	362	2.00	mg/L	1	EA71603	01/18/07	01/18/07	EPA 310.1M	
Chloride	1510	50.0	"	100	EA71507	01/15/07	01/15/07	EPA 300.0	
Total Dissolved Solids	2980	10.0	"	1	EA71508	01/15/07	01/16/07	EPA 160.1	
Sulfate	67.2	50.0	"	100	EA71507	01/15/07	01/15/07	EPA 300.0	
F-35 SWD Monitor Well #2 (7A12003-02) Water									
Total Alkalinity	288	2.00	mg/L	1	EA71603	01/18/07	01/18/07	EPA 310.1M	
Chloride	101	5.00	"	10	EA71507	01/15/07	01/15/07	EPA 300.0	
Total Dissolved Solids	590	10.0	"	1	EA71508	01/15/07	01/16/07	EPA 160.1	
Sulfate	69.4	5.00	"	10	EA71507	01/15/07	01/15/07	EPA 300.0	
F-35 SWD Monitor Well #3- Shallow (7A12003-03) Water									
Total Alkalinity	174	2.00	mg/L	1	EA71603	01/18/07	01/18/07	EPA 310.1M	
Chloride	144	5.00	"	10	EA71507	01/15/07	01/15/07	EPA 300.0	
Total Dissolved Solids	512	10.0	"	1	EA71508	01/15/07	01/16/07	EPA 160.1	
Sulfate	99.0	5.00	"	10	EA71507	01/15/07	01/15/07	EPA 300.0	
F-35 SWD Monitor Well #3- Deep (7A12003-04) Water									
Total Alkalinity	160	2.00	mg/L	1	EA71603	01/18/07	01/18/07	EPA 310.1M	
Chloride	133	5.00	"	10	EA71507	01/15/07	01/15/07	EPA 300.0	
Total Dissolved Solids	500	10.0	"	1	EA71508	01/15/07	01/16/07	EPA 160.1	
Sulfate	86.9	5.00	"	10	EA71507	01/15/07	01/15/07	EPA 300.0	
G-35 SWD Monitor Well #1 (7A12003-05) Water									
Total Alkalinity	426	2.00	mg/L	1	EA71603	01/18/07	01/18/07	EPA 310.1M	
Chloride	873	25.0	"	50	EA71507	01/15/07	01/15/07	EPA 300.0	
Total Dissolved Solids	1950	10.0	"	1	EA71508	01/15/07	01/16/07	EPA 160.1	
Sulfate	34.6	25.0	"	50	EA71507	01/15/07	01/15/07	EPA 300.0	
G-35 SWD Monitor Well #2 (7A12003-06) Water									
Total Alkalinity	180	2.00	mg/L	1	EA71603	01/18/07	01/18/07	EPA 310.1M	
Chloride	13.7	2.50	"	5	EA71507	01/15/07	01/15/07	EPA 300.0	
Total Dissolved Solids	322	10.0	"	1	EA71508	01/15/07	01/16/07	EPA 160.1	
Sulfate	21.7	2.50	"	5	EA71507	01/15/07	01/15/07	EPA 300.0	

Environmental Lab of Texas

A Xenco Laboratories, Inc. 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 14

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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G-35 SWD Monitor Well #3- Shallow (7A12003-07) Water

Total Alkalinity	166	2.00	mg/L	1	EA71603	01/18/07	01/18/07	EPA 310.1M	
Chloride	311	5.00	"	10	EA71507	01/15/07	01/15/07	EPA 300.0	
Total Dissolved Solids	804	10.0	"	1	EA71508	01/15/07	01/16/07	EPA 160.1	
Sulfate	48.9	5.00	"	10	EA71507	01/15/07	01/15/07	EPA 300.0	

G-35 SWD Monitor Well #3- Deep (7A12003-08) Water

Total Alkalinity	140	2.00	mg/L	1	EA71603	01/18/07	01/18/07	EPA 310.1M	
Chloride	313	12.5	"	25	EA71507	01/15/07	01/15/07	EPA 300.0	
Total Dissolved Solids	830	10.0	"	1	EA71508	01/15/07	01/16/07	EPA 160.1	
Sulfate	46.5	12.5	"	25	EA71507	01/15/07	01/15/07	EPA 300.0	

Environmental Lab of Texas

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Page 3 of 14

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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F-35 SWD Monitor Well #1 (7A12003-01) Water

Calcium	192	4.05	mg/L	50	EA71815	01/18/07	01/18/07	EPA 6010B	
Magnesium	73.0	1.80	"	"	"	"	"	"	
Potassium	8.47	0.600	"	10	"	"	"	"	
Sodium	773	10.8	"	250	"	"	"	"	

F-35 SWD Monitor Well #2 (7A12003-02) Water

Calcium	104	4.05	mg/L	50	EA71815	01/18/07	01/18/07	EPA 6010B	
Magnesium	19.6	0.360	"	10	"	"	"	"	
Potassium	3.72	0.600	"	"	"	"	"	"	
Sodium	45.9	0.430	"	"	"	"	"	"	

F-35 SWD Monitor Well #3- Shallow (7A12003-03) Water

Calcium	83.4	4.05	mg/L	50	EA71815	01/18/07	01/18/07	EPA 6010B	
Magnesium	17.0	0.360	"	10	"	"	"	"	
Potassium	3.59	0.600	"	"	"	"	"	"	
Sodium	72.0	2.15	"	50	"	"	"	"	

F-35 SWD Monitor Well #3- Deep (7A12003-04) Water

Calcium	93.7	4.05	mg/L	50	EA71815	01/18/07	01/18/07	EPA 6010B	
Magnesium	17.2	0.360	"	10	"	"	"	"	
Potassium	3.18	0.600	"	"	"	"	"	"	
Sodium	50.1	2.15	"	50	"	"	"	"	

G-35 SWD Monitor Well #1 (7A12003-05) Water

Calcium	21.8	0.810	mg/L	10	EA71815	01/18/07	01/18/07	EPA 6010B	
Magnesium	15.0	0.360	"	"	"	"	"	"	
Potassium	9.32	0.600	"	"	"	"	"	"	
Sodium	684	10.8	"	250	"	"	"	"	

G-35 SWD Monitor Well #2 (7A12003-06) Water

Calcium	52.0	0.810	mg/L	10	EA71815	01/18/07	01/18/07	EPA 6010B	
Magnesium	11.1	0.360	"	"	"	"	"	"	
Potassium	2.44	0.600	"	"	"	"	"	"	
Sodium	19.2	0.430	"	"	"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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G-35 SWD Monitor Well #3- Shallow (7A12003-07) Water

Calcium	124	4.05	mg/L	50	EA71815	01/18/07	01/18/07	EPA 6010B	
Magnesium	16.9	0.360	"	10	"	"	"	"	
Potassium	5.71	0.600	"	"	"	"	"	"	
Sodium	115	2.15	"	50	"	"	"	"	

G-35 SWD Monitor Well #3- Deep (7A12003-08) Water

Calcium	127	4.05	mg/L	50	EA71815	01/18/07	01/18/07	EPA 6010B	
Magnesium	18.8	0.360	"	10	"	"	"	"	
Potassium	4.09	0.600	"	"	"	"	"	"	
Sodium	105	2.15	"	50	"	"	"	"	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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F-35 SWD Monitor Well #1 (7A12003-01) Water

Benzene	0.486	0.00500	mg/L	5	EA71517	01/15/07	01/15/07	EPA 8260B	
Toluene	0.577	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.185	0.00500	"	"	"	"	"	"	
Xylene (p/m)	0.217	0.00500	"	"	"	"	"	"	
Xylene (o)	0.116	0.00500	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.6 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		97.2 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.6 %	65-140		"	"	"	"	

F-35 SWD Monitor Well #2 (7A12003-02) Water

Benzene	ND	0.00100	mg/L	1	EA71517	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.2 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		88.0 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		90.6 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.8 %	65-140		"	"	"	"	

F-35 SWD Monitor Well #3- Shallow (7A12003-03) Water

Benzene	ND	0.00100	mg/L	1	EA71517	01/15/07	01/15/07	EPA 8260B	
Toluene	0.0150	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		97.8 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		86.0 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		92.0 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.6 %	65-140		"	"	"	"	

Environmental Lab of Texas

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #3- Deep (7A12003-04) Water									
Benzene	ND	0.00100	mg/L	1	EA71517	01/15/07	01/15/07	EPA 8260B	
Toluene	0.0103	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		98.4 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		86.6 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		91.8 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	65-140		"	"	"	"	
G-35 SWD Monitor Well #1 (7A12003-05) Water									
Benzene	0.188	0.0100	mg/L	10	EA71517	01/15/07	01/15/07	EPA 8260B	
Toluene	ND	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.0883	0.0100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0100	"	"	"	"	"	"	
Xylene (o)	J [0.00764]	0.0100	"	"	"	"	"	"	J
Surrogate: Dibromofluoromethane		101 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		90.8 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		94.0 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		102 %	65-140		"	"	"	"	
G-35 SWD Monitor Well #2 (7A12003-06) Water									
Benzene	ND	0.00100	mg/L	1	EA71517	01/15/07	01/15/07	EPA 8260B	
Toluene	J [0.000540]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		94.0 %	68-129		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		76.0 %	72-132		"	"	"	"	
Surrogate: Toluene-d8		90.0 %	74-118		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	65-140		"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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G-35 SWD Monitor Well #3- Shallow (7A12003-07) Water

Benzene	ND	0.00100	mg/L	1	EA71517	01/15/07	01/15/07	EPA 8260B	
Toluene	0.0191	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		91.4 %	68-129		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		75.6 %	72-132		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		89.2 %	74-118		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	65-140		"	"	"	"	

G-35 SWD Monitor Well #3- Deep (7A12003-08) Water

Benzene	ND	0.00100	mg/L	1	EA71517	01/15/07	01/15/07	EPA 8260B	
Toluene	0.0136	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		104 %	68-129		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		90.4 %	72-132		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		92.0 %	74-118		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		98.4 %	65-140		"	"	"	"	

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA71507 - General Preparation (WetChem)

Blank (EA71507-BLK1)

Prepared & Analyzed: 01/15/07

Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							

LCS (EA71507-BS1)

Prepared & Analyzed: 01/15/07

Chloride	10.4	0.500	mg/L	10.0		104	80-120			
Sulfate	9.84	0.500	"	10.0		98.4	80-120			

Calibration Check (EA71507-CCV1)

Prepared & Analyzed: 01/15/07

Chloride	9.78		mg/L	10.0		97.8	80-120			
Sulfate	12.0		"	10.0		120	80-120			

Duplicate (EA71507-DUP1)

Source: 7A12003-02

Prepared & Analyzed: 01/15/07

Chloride	103	5.00	mg/L		101			1.96	20	
Sulfate	70.8	5.00	"		69.4			2.00	20	

Duplicate (EA71507-DUP2)

Source: 7A12006-03

Prepared & Analyzed: 01/15/07

Chloride	146	5.00	mg/L		148			1.36	20	
Sulfate	51.3	5.00	"		52.3			1.93	20	

Matrix Spike (EA71507-MS1)

Source: 7A12003-02

Prepared & Analyzed: 01/15/07

Chloride	206	5.00	mg/L	100	101	105	80-120			
Sulfate	228	5.00	"	100	69.4	159	80-120			

Matrix Spike (EA71507-MS2)

Source: 7A12006-03

Prepared & Analyzed: 01/15/07

Sulfate	155	5.00	mg/L	100	52.3	103	80-120			
Chloride	257	5.00	"	100	148	109	80-120			

Environmental Lab of Texas

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA71508 - Filtration Preparation

Duplicate (EA71508-DUP1)

Source: 7A12003-02

Prepared: 01/15/07 Analyzed: 01/16/07

Total Dissolved Solids	586	10.0	mg/L		590			0.680	20	
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Duplicate (EA71508-DUP2)

Source: 7A12006-03

Prepared: 01/15/07 Analyzed: 01/16/07

Total Dissolved Solids	582	10.0	mg/L		590			1.37	20	
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Batch EA71603 - General Preparation (WetChem)

Blank (EA71603-BLK1)

Prepared & Analyzed: 01/18/07

Total Alkalinity	ND	2.00	mg/L							
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LCS (EA71603-BS1)

Prepared & Analyzed: 01/18/07

Bicarbonate Alkalinity	186	2.00	mg/L	200		93.0	85-115			
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Duplicate (EA71603-DUP1)

Source: 7A12003-01

Prepared & Analyzed: 01/18/07

Total Alkalinity	360	2.00	mg/L		362			0.554	20	
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Reference (EA71603-SRM1)

Prepared & Analyzed: 01/18/07

Total Alkalinity	246		mg/L	250		98.4	90-110			
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EA71815 - 6010B/No Digestion

Blank (EA71815-BLK1)

Prepared & Analyzed: 01/18/07

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

Calibration Check (EA71815-CCV1)

Prepared & Analyzed: 01/18/07

Calcium	1.98		mg/L	2.00		99.0	85-115			
Magnesium	2.05		"	2.00		102	85-115			
Potassium	1.74		"	2.00		87.0	85-115			
Sodium	1.86		"	2.00		93.0	85-115			

Duplicate (EA71815-DUP1)

Source: 7A12003-01

Prepared & Analyzed: 01/18/07

Calcium	192	4.05	mg/L		192			0.00	20	
Magnesium	75.6	1.80	"		73.0			3.50	20	
Potassium	8.54	0.600	"		8.47			0.823	20	
Sodium	739	10.8	"		773			4.50	20	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B - 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 EA71517 - EPA 5030C (GCMS)

Blank (EA71517-BLK1)

Prepared & Analyzed: 01/15/07

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: Dibromofluoromethane	49.3		ug/l	50.0		98.6	68-129			
Surrogate: 1,2-Dichloroethane-d4	39.0		"	50.0		78.0	72-132			
Surrogate: Toluene-d8	40.2		"	50.0		80.4	74-118			
Surrogate: 4-Bromofluorobenzene	49.4		"	50.0		98.8	65-140			

LCS (EA71517-BS1)

Prepared & Analyzed: 01/15/07

Benzene	0.0198	0.00100	mg/L	0.0250		79.2	70-130			
Toluene	0.0193	0.00100	"	0.0250		77.2	70-130			
Ethylbenzene	0.0241	0.00100	"	0.0250		96.4	70-130			
Xylene (p/m)	0.0486	0.00100	"	0.0500		97.2	70-130			
Xylene (o)	0.0248	0.00100	"	0.0250		99.2	70-130			
Surrogate: Dibromofluoromethane	50.7		ug/l	50.0		101	68-129			
Surrogate: 1,2-Dichloroethane-d4	46.0		"	50.0		92.0	72-132			
Surrogate: Toluene-d8	38.0		"	50.0		76.0	74-118			
Surrogate: 4-Bromofluorobenzene	35.6		"	50.0		71.2	65-140			

Calibration Check (EA71517-CCV1)

Prepared & Analyzed: 01/15/07

Toluene	51.3		ug/l	50.0		103	70-130			
Ethylbenzene	40.6		"	50.0		81.2	70-130			
Surrogate: Dibromofluoromethane	48.2		"	50.0		96.4	68-129			
Surrogate: 1,2-Dichloroethane-d4	51.7		"	50.0		103	72-132			
Surrogate: Toluene-d8	52.9		"	50.0		106	74-118			
Surrogate: 4-Bromofluorobenzene	37.4		"	50.0		74.8	65-140			

Environmental Lab of Texas

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Environmental Lab of Texas

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

Batch EA71517 - EPA 5030C (GCMS)

Matrix Spike (EA71517-MS1)		Source: 7A12013-05		Prepared: 01/15/07 Analyzed: 01/16/07						
Benzene	0.0245	0.00100	mg/L	0.0250	0.00381	82.8	80-120			
Toluene	0.0224	0.00100	"	0.0250	ND	89.6	80-120			
Ethylbenzene	0.0250	0.00100	"	0.0250	ND	100	80-120			
Xylene (p/m)	0.0508	0.00100	"	0.0500	ND	102	80-120			
Xylene (o)	0.0260	0.00100	"	0.0250	ND	104	80-120			
Surrogate: Dibromofluoromethane	51.2		ug/l	50.0		102	68-129			
Surrogate: 1,2-Dichloroethane-d4	44.2		"	50.0		88.4	72-132			
Surrogate: Toluene-d8	41.8		"	50.0		83.6	74-118			
Surrogate: 4-Bromofluorobenzene	49.0		"	50.0		98.0	65-140			

Matrix Spike Dup (EA71517-MSD1)		Source: 7A12013-05		Prepared: 01/15/07 Analyzed: 01/18/07						
Benzene	0.0258	0.00100	mg/L	0.0250	0.00381	88.0	80-120	5.17	20	
Toluene	0.0224	0.00100	"	0.0250	ND	89.6	80-120	0.00	20	
Ethylbenzene	0.0246	0.00100	"	0.0250	ND	98.4	80-120	1.61	20	
Xylene (p/m)	0.0503	0.00100	"	0.0500	ND	101	80-120	0.989	20	
Xylene (o)	0.0267	0.00100	"	0.0250	ND	107	80-120	2.66	20	
Surrogate: Dibromofluoromethane	57.0		ug/l	50.0		114	68-129			
Surrogate: 1,2-Dichloroethane-d4	49.9		"	50.0		99.8	72-132			
Surrogate: Toluene-d8	42.2		"	50.0		84.4	74-118			
Surrogate: 4-Bromofluorobenzene	48.3		"	50.0		96.6	65-140			

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

S-08 Value outside Laboratory historical or method prescribed QC limits.
J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By: 

Date: 1/25/2007

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.

Environmental Lab of Texas

A Xenco Laboratories, Inc. Company

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Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Op
 Date/ Time: 1/12/07 9:30
 Lab ID #: 7A12003
 Initials: OK

Sample Receipt Checklist

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

Variance Documentation

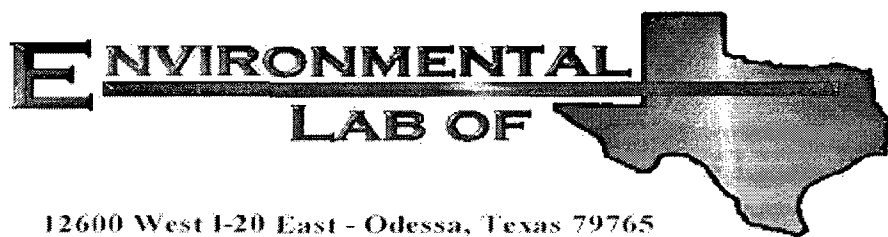
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken: _____

Check all that Apply:

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



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: Vacuum F-35 SWD & G-35 SWD

Project Number: None Given

Location: T17S-R35E-Sec35 F&G ~ Lea County New Mexico

Lab Order Number: 7E25009

Report Date: 06/13/07

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
F-35 SWD Monitor Well #1	7E25009-01	Water	05/23/07 10:50	05-25-2007 11:25
F-35 SWD Monitor Well #2	7E25009-02	Water	05/23/07 11:35	05-25-2007 11:25
F-35 SWD Monitor Well #3-Shallow	7E25009-03	Water	05/23/07 14:10	05-25-2007 11:25
F-35 SWD Monitor Well #3-Deep	7E25009-04	Water	05/23/07 14:45	05-25-2007 11:25
G-35 SWD Monitor Well #1	7E25009-05	Water	05/24/07 14:40	05-25-2007 11:25
G-35 SWD Monitor Well #2	7E25009-06	Water	05/24/07 09:30	05-25-2007 11:25
G-35 SWD Monitor Well #3-Shallow	7E25009-07	Water	05/24/07 12:45	05-25-2007 11:25
G-35 SWD Monitor Well #3-Deep	7E25009-08	Water	05/24/07 13:25	05-25-2007 11:25
G-35 SWD Monitor Well #4	7E25009-09	Water	05/24/07 16:15	05-25-2007 11:25

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-35 SWD Monitor Well #1 (7E25009-01) Water									
Benzene	0.557	0.00500	mg/L	5	EE73017	05/30/07	05/31/07	EPA 8021B	
Toluene	0.387	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.323	0.00500	"	"	"	"	"	"	
Xylene (p/m)	0.444	0.00500	"	"	"	"	"	"	
Xylene (o)	0.237	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		88.4 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		94.4 %	80-120		"	"	"	"	

F-35 SWD Monitor Well #2 (7E25009-02) Water

Benzene	ND	0.00100	mg/L	1	EE73017	05/30/07	05/31/07	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>		98.2 %	80-120		"	"	"	"	

F-35 SWD Monitor Well #3-Shallow (7E25009-03) Water

Benzene	ND	0.00100	mg/L	1	EE73017	05/30/07	05/31/07	EPA 8021B	
Toluene	0.00130	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>		97.6 %	80-120		"	"	"	"	

F-35 SWD Monitor Well #3-Deep (7E25009-04) Water

Benzene	ND	0.00100	mg/L	1	EE73017	05/30/07	05/31/07	EPA 8021B	
Toluene	0.00241	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>		99.2 %	80-120		"	"	"	"	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
G-35 SWD Monitor Well #1 (7E25009-05) Water									
Benzene	0.143	0.00100	mg/L	1	EE73017	05/30/07	05/31/07	EPA 8021B	
Toluene	0.00735	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.0664	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0109	0.00100	"	"	"	"	"	"	
Xylene (o)	0.0118	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		97.6 %	80-120		"	"	"	"	

G-35 SWD Monitor Well #2 (7E25009-06) Water

Benzene	ND	0.00100	mg/L	1	EE73017	05/30/07	05/31/07	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>		99.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.6 %	80-120		"	"	"	"	

G-35 SWD Monitor Well #3-Shallow (7E25009-07) Water

Benzene	ND	0.00100	mg/L	1	EE73017	05/30/07	05/31/07	EPA 8021B	
Toluene	1 [0.000380]	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>		93.6 %	80-120		"	"	"	"	

G-35 SWD Monitor Well #3-Deep (7E25009-08) Water

Benzene	ND	0.00100	mg/L	1	EE73017	05/30/07	05/31/07	EPA 8021B	
Toluene	1 [0.000320]	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>		96.8 %	80-120		"	"	"	"	

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122 W. Taylor
Hobbs NM, 88240

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
G-35 SWD Monitor Well #4 (7E25009-09) Water									
Benzene	0.0521	0.00100	mg/L	1	EE73017	05/30/07	05/31/07	EPA 8021B	
Toluene	0.0582	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.0170	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.0199	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00829	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		96.4 %	80-120		"	"	"	"	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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F-35 SWD Monitor Well #1 (7E25009-01) Water

Total Alkalinity	510	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	1500	25.0	"	50	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	2850	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	44.4	25.0	"	50	EE73019	05/30/07	05/30/07	EPA 300.0	

F-35 SWD Monitor Well #2 (7E25009-02) Water

Total Alkalinity	312	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	88.3	5.00	"	10	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	512	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	61.0	5.00	"	10	EE73019	05/30/07	05/30/07	EPA 300.0	

F-35 SWD Monitor Well #3-Shallow (7E25009-03) Water

Total Alkalinity	176	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	117	5.00	"	10	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	494	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	56.9	5.00	"	10	EE73019	05/30/07	05/30/07	EPA 300.0	

F-35 SWD Monitor Well #3-Deep (7E25009-04) Water

Total Alkalinity	170	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	91.9	5.00	"	10	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	452	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	47.5	5.00	"	10	EE73019	05/30/07	05/30/07	EPA 300.0	

G-35 SWD Monitor Well #1 (7E25009-05) Water

Total Alkalinity	510	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	873	25.0	"	50	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	1820	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	41.2	25.0	"	50	EE73019	05/30/07	05/30/07	EPA 300.0	

G-35 SWD Monitor Well #2 (7E25009-06) Water

Total Alkalinity	196	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	17.2	5.00	"	10	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	254	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	20.1	5.00	"	10	EE73019	05/30/07	05/30/07	EPA 300.0	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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G-35 SWD Monitor Well #3-Shallow (7E25009-07) Water

Total Alkalinity	200	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	599	12.5	"	25	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	1070	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	34.5	12.5	"	25	EE73019	05/30/07	05/30/07	EPA 300.0	

G-35 SWD Monitor Well #3-Deep (7E25009-08) Water

Total Alkalinity	230	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	648	12.5	"	25	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	1090	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	34.7	12.5	"	25	EE73019	05/30/07	05/30/07	EPA 300.0	

G-35 SWD Monitor Well #4 (7E25009-09) Water

Total Alkalinity	320	2.00	mg/L	1	EE72910	05/29/07	05/30/07	EPA 310.1M	
Chloride	1200	25.0	"	50	EE73019	05/30/07	05/30/07	EPA 300.0	
Total Dissolved Solids	2050	10.0	"	1	EE73008	05/25/07	05/30/07	EPA 160.1	
Sulfate	43.2	25.0	"	50	EE73019	05/30/07	05/30/07	EPA 300.0	

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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F-35 SWD Monitor Well #1 (7E25009-01) Water

Calcium	209	4.05	mg/L	50	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	53.3	0.360	"	10	"	"	"	"	
Potassium	6.57	0.600	"	"	"	"	"	"	
Sodium	718	10.8	"	250	"	"	"	"	

F-35 SWD Monitor Well #2 (7E25009-02) Water

Calcium	136	4.05	mg/L	50	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	18.3	0.360	"	10	"	"	"	"	
Potassium	3.81	0.600	"	"	"	"	"	"	
Sodium	38.2	0.430	"	"	"	"	"	"	

F-35 SWD Monitor Well #3-Shallow (7E25009-03) Water

Calcium	97.4	4.05	mg/L	50	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	15.3	0.360	"	10	"	"	"	"	
Potassium	3.75	0.600	"	"	"	"	"	"	
Sodium	51.9	0.430	"	"	"	"	"	"	

F-35 SWD Monitor Well #3-Deep (7E25009-04) Water

Calcium	86.5	0.810	mg/L	10	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	13.3	0.360	"	"	"	"	"	"	
Potassium	3.04	0.600	"	"	"	"	"	"	
Sodium	30.4	0.430	"	"	"	"	"	"	

G-35 SWD Monitor Well #1 (7E25009-05) Water

Calcium	57.3	0.810	mg/L	10	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	17.6	0.360	"	"	"	"	"	"	
Potassium	7.47	0.600	"	"	"	"	"	"	
Sodium	611	10.8	"	250	"	"	"	"	

G-35 SWD Monitor Well #2 (7E25009-06) Water

Calcium	60.6	0.810	mg/L	10	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	8.87	0.360	"	"	"	"	"	"	
Potassium	2.15	0.600	"	"	"	"	"	"	
Sodium	8.51	0.430	"	"	"	"	"	"	

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122 W. Taylor
Hobbs NM, 88240

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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G-35 SWD Monitor Well #3-Shallow (7E25009-07) Water

Calcium	276	4.05	mg/L	50	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	32.8	0.360	"	10	"	"	"	"	
Potassium	4.97	0.600	"	"	"	"	"	"	
Sodium	135	2.15	"	50	"	"	"	"	

G-35 SWD Monitor Well #3-Deep (7E25009-08) Water

Calcium	279	4.05	mg/L	50	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	33.2	0.360	"	10	"	"	"	"	
Potassium	4.72	0.600	"	"	"	"	"	"	
Sodium	139	2.15	"	50	"	"	"	"	

G-35 SWD Monitor Well #4 (7E25009-09) Water

Calcium	241	4.05	mg/L	50	EE73022	05/30/07	05/30/07	EPA 6010B	
Magnesium	38.4	0.360	"	10	"	"	"	"	
Potassium	5.91	0.600	"	"	"	"	"	"	
Sodium	505	10.8	"	250	"	"	"	"	

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Rice Operating Co.
122 W. Taylor
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Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE73017 - EPA 5030C (GC)

Blank (EE73017-BLK1)

Prepared: 05/30/07 Analyzed: 05/31/07

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	46.3		ug/l	50.0		92.6	80-120			
Surrogate: 4-Bromofluorobenzene	46.1		"	50.0		92.2	80-120			

LCS (EE73017-BS1)

Prepared: 05/30/07 Analyzed: 05/31/07

Benzene	0.0481	0.00100	mg/L	0.0500		96.2	80-120			
Toluene	0.0517	0.00100	"	0.0500		103	80-120			
Ethylbenzene	0.0530	0.00100	"	0.0500		106	80-120			
Xylene (p/m)	0.102	0.00100	"	0.100		102	80-120			
Xylene (o)	0.0555	0.00100	"	0.0500		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	50.1		ug/l	50.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	53.5		"	50.0		107	80-120			

Calibration Check (EE73017-CCV1)

Prepared: 05/30/07 Analyzed: 06/01/07

Benzene	0.0532		mg/L	0.0500		106	80-120			
Toluene	0.0547		"	0.0500		109	80-120			
Ethylbenzene	0.0547		"	0.0500		109	80-120			
Xylene (p/m)	0.103		"	0.100		103	80-120			
Xylene (o)	0.0569		"	0.0500		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	50.1		ug/l	50.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	51.4		"	50.0		103	80-120			

Matrix Spike (EE73017-MS1)

Source: 7E24011-02

Prepared: 05/30/07 Analyzed: 06/01/07

Benzene	0.0512	0.00100	mg/L	0.0500	ND	102	80-120			
Toluene	0.0540	0.00100	"	0.0500	ND	108	80-120			
Ethylbenzene	0.0512	0.00100	"	0.0500	ND	102	80-120			
Xylene (p/m)	0.103	0.00100	"	0.100	ND	103	80-120			
Xylene (o)	0.0562	0.00100	"	0.0500	ND	112	80-120			
Surrogate: a,a,a-Trifluorotoluene	50.0		ug/l	50.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	51.7		"	50.0		103	80-120			

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Hobbs NM, 88240

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE73017 - EPA 5030C (GC)

Matrix Spike Dup (EE73017-MSD1)

Source: 7E24011-02

Prepared: 05/30/07 Analyzed: 06/01/07

Benzene	0.0500	0.00100	mg/L	0.0500	ND	100	80-120	1.98	20	
Toluene	0.0529	0.00100	"	0.0500	ND	106	80-120	1.87	20	
Ethylbenzene	0.0525	0.00100	"	0.0500	ND	105	80-120	2.90	20	
Xylene (p/m)	0.100	0.00100	"	0.100	ND	100	80-120	2.96	20	
Xylene (o)	0.0548	0.00100	"	0.0500	ND	110	80-120	1.80	20	
Surrogate: a,a,a-Trifluorotoluene	53.0		ug/l	50.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	50.2		"	50.0		100	80-120			

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Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EE72910 - General Preparation (WetChem)

Blank (EE72910-BLK1)

Prepared: 05/29/07 Analyzed: 05/30/07

Total Alkalinity	ND	2.00	mg/L
Carbonate Alkalinity	ND	0.100	"
Bicarbonate Alkalinity	ND	2.00	"
Hydroxide Alkalinity	ND	0.100	"

LCS (EE72910-BS1)

Prepared: 05/29/07 Analyzed: 05/30/07

Bicarbonate Alkalinity	180	2.00	mg/L	200	90.0	85-115
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Duplicate (EE72910-DUP1)

Source: 7E22010-01

Prepared: 05/29/07 Analyzed: 05/30/07

Total Alkalinity	790	2.00	mg/L	780	1.27	20
Carbonate Alkalinity	0.00	0.100	"	0.00		20
Bicarbonate Alkalinity	790	2.00	"	790	0.00	20
Hydroxide Alkalinity	0.00	0.100	"	0.00		20

Reference (EE72910-SRM1)

Prepared: 05/29/07 Analyzed: 05/30/07

Total Alkalinity	252		mg/L	250	101	90-110
------------------	-----	--	------	-----	-----	--------

Batch EE73008 - Filtration Preparation

Blank (EE73008-BLK1)

Prepared: 05/25/07 Analyzed: 05/30/07

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

Duplicate (EE73008-DUP1)

Source: 7E25007-01

Prepared: 05/25/07 Analyzed: 05/30/07

Total Dissolved Solids	968	10.0	mg/L	948	2.09	20
------------------------	-----	------	------	-----	------	----

Duplicate (EE73008-DUP2)

Source: 7E25009-05

Prepared: 05/25/07 Analyzed: 05/30/07

Total Dissolved Solids	1780	10.0	mg/L	1820	2.22	20
------------------------	------	------	------	------	------	----

Environmental Lab of Texas

A Xenco Laboratories Company

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

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

Batch EE73019 - General Preparation (WetChem)

Blank (EE73019-BLK1)

Prepared & Analyzed: 05/30/07

Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							

LCS (EE73019-BS1)

Prepared & Analyzed: 05/30/07

Sulfate	9.42	0.500	mg/L	10.0		94.2	80-120			
Chloride	8.23	0.500	"	10.0		82.3	80-120			

Calibration Check (EE73019-CCV1)

Prepared & Analyzed: 05/30/07

Sulfate	9.96		mg/L	10.0		99.6	80-120			
Chloride	8.37		"	10.0		83.7	80-120			

Duplicate (EE73019-DUP1)

Source: 7E25007-01

Prepared & Analyzed: 05/30/07

Sulfate	54.8	10.0	mg/L		53.8			1.84	20	
Chloride	335	10.0	"		329			1.81	20	

Duplicate (EE73019-DUP2)

Source: 7E25009-05

Prepared & Analyzed: 05/30/07

Chloride	879	25.0	mg/L		873			0.685	20	
Sulfate	38.6	25.0	"		41.2			6.52	20	

Matrix Spike (EE73019-MS1)

Source: 7E25007-01

Prepared & Analyzed: 05/30/07

Chloride	524	10.0	mg/L	200	329	97.5	80-120			
Sulfate	233	10.0	"	200	53.8	89.6	80-120			

Matrix Spike (EE73019-MS2)

Source: 7E25009-05

Prepared & Analyzed: 05/30/07

Chloride	1390	25.0	mg/L	500	873	103	80-120			
Sulfate	453	25.0	"	500	41.2	82.4	80-120			

Environmental Lab of Texas

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Page 12 of 14

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

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

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

Batch EE73022 - 6010B/No Digestion

Blank (EE73022-BLK1)

Prepared & Analyzed: 05/30/07

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

Calibration Check (EE73022-CCV1)

Prepared & Analyzed: 05/30/07

Calcium	2.26		mg/L	2.00		113	85-115			
Magnesium	2.08		"	2.00		104	85-115			
Potassium	1.81		"	2.00		90.5	85-115			
Sodium	1.99		"	2.00		99.5	85-115			

Duplicate (EE73022-DUP1)

Source: 7E25007-01

Prepared & Analyzed: 05/30/07

Calcium	96.2	4.05	mg/L		94.8			1.47	20	
Magnesium	11.8	0.360	"		11.6			1.71	20	
Potassium	2.44	0.600	"		2.79			13.4	20	
Sodium	206	2.15	"		203			1.47	20	

Environmental Lab of Texas

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

Project: Vacuum F-35 SWD & G-35 SWD
Project Number: None Given
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Notes and Definitions

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

Report Approved By:



Date:

6/13/2007

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

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

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Environmental Lab of Texas

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
7E25009-02	Alkalinity 310.1M		Sampled->Prepared > 2.00 days Default Report (not modified)
7E25009-08	Alkalinity 310.1M		Sampled->Prepared > 2.00 days
7E25009-08	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
7E25009-07	Alkalinity 310.1M		Sampled->Prepared > 2.00 days
7E25009-07	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
7E25009-06	Alkalinity 310.1M		Sampled->Prepared > 2.00 days
7E25009-06	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
7E25009-05	Alkalinity 310.1M		Sampled->Prepared > 2.00 days
7E25009-05	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
7E25009-04	Alkalinity 310.1M		Sampled->Prepared > 2.00 days
7E25009-04	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
7E25009-09	Alkalinity 310.1M		Sampled->Prepared > 2.00 days
7E25009-03	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
7E25009-01	Alkalinity 310.1M		Missing Bicarbonate Alkalinity
7E25009-02	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
7E25009-01	Alkalinity 310.1M		Sampled->Prepared > 2.00 days
7E25009-01	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
	Sulfate-300.0	(Water)	J-Flags used
	Chloride-300.0	(Water)	J-Flags used
	Cations 6010B	(Water)	J-Flags used
	8021B BTEX	(Water)	RPD calculations based on %Recovery
	Sulfate-300.0	(Water)	Result calculations based on MDL
	Chloride-300.0	(Water)	Result calculations based on MDL
	Cations 6010B	(Water)	Result calculations based on MDL
	8021B BTEX	(Water)	Result calculations based on MDL
7E25009-03	Alkalinity 310.1M		Sampled->Prepared > 2.00 days
7E25009-04	Alkalinity 310.1M		Missing Carbonate Alkalinity
7E25009-08	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-07	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-06	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-05	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-04	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-03	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-02	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-01	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-09	Alkalinity 310.1M		Missing Carbonate Alkalinity
7E25009-08	Alkalinity 310.1M		Missing Carbonate Alkalinity
7E25009-07	Alkalinity 310.1M		Missing Carbonate Alkalinity
7E25009-09	Alkalinity 310.1M		Sampled->Analyzed > 2.00 days
7E25009-05	Alkalinity 310.1M		Missing Carbonate Alkalinity
7E25009-09	Alkalinity 310.1M		Missing Hydroxide Alkalinity
7E25009-03	Alkalinity 310.1M		Missing Carbonate Alkalinity
7E25009-02	Alkalinity 310.1M		Missing Carbonate Alkalinity
7E25009-01	Alkalinity 310.1M		Missing Carbonate Alkalinity
7E25009-09	Alkalinity 310.1M		Missing Bicarbonate Alkalinity
7E25009-08	Alkalinity 310.1M		Missing Bicarbonate Alkalinity
7E25009-07	Alkalinity 310.1M		Missing Bicarbonate Alkalinity
7E25009-06	Alkalinity 310.1M		Missing Bicarbonate Alkalinity
7E25009-05	Alkalinity 310.1M		Missing Bicarbonate Alkalinity

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

Client: Rice
Date/ Time: 5-25-07 11 25
Lab ID #: 7E25009
Initials: QL

Sample Receipt Checklist

Client Initials

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

Variance Documentation

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

Regarding: _____

Corrective Action Taken: _____

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



ARDINAL LABORATORIES

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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: 09/21/07
Reporting Date: 09/24/07
Project Number: NOT GIVEN
Project Name: VACUUM F-35 SWD AND G-35 SWD
Project Location: T17S-R35E-SEC35 F & G ~ LEA COUNTY, NM

Sampling Date: 09/19/07 & 09/20/07
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		09/22/07	09/22/07	09/22/07	09/22/07
H13351-1	F-35 SWD MONITOR WELL #1	0.902	0.706	0.582	1.140
H13351-2	F-35 SWD MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H13351-3	F-35 SWD MW #3-SHALLOW	<0.002	<0.002	<0.002	<0.006
H13351-4	F-35 SWD MW #3-DEEP	<0.002	<0.002	<0.002	<0.006
H13351-5	G-35 SWD MONITOR WELL #1	0.189	0.004	0.082	0.029
H13351-6	G-35 SWD MONITOR WELL #2	<0.002	<0.002	<0.002	<0.006
H13351-7	G-35 SWD MW #3-SHALLOW	<0.002	<0.002	<0.002	<0.006
H13351-8	G-35 SWD MW #3-DEEP	<0.002	<0.002	<0.002	<0.006
H13351-9	G-35 SWD MONITOR WELL #4	0.146	0.058	0.023	0.042
Quality Control		0.106	0.098	0.096	0.273
True Value QC		0.100	0.100	0.100	0.300
% Recovery		106	98.3	96.2	90.9
Relative Percent Difference		3.1	<0.1	0.8	1.9

METHOD: EPA 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: (505) 397-1471

Receiving Date: 09/21/07
Reporting Date: 09/28/07
Project Owner: NOT GIVEN
Project Name: VACUUM F-35 SWD and G-35 SWD
Project Location: T17S-R35E-SEC35 F and G ~ LEA COUNTY, NM

Sampling Date: 09/19/07 & 09/20/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: HM/KS/AB

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (u S/cm)	T-Alkalinity (mgCaCO ₃ /L)
ANALYSIS DATE:		09/28/07	09/28/07	09/28/07	09/27/07	09/24/07	09/25/07
H13351-1	F-35 SWD Monitor Well #1	797	168	49.2	10.3	4,950	400
H13351-2	F-35 SWD Monitor Well #2	103	70.5	18.6	2.92	931	264
H13351-3	F-35 SWD M. W. #3-Shallow	83	99.8	18.6	2.91	1,035	164
H13351-4	F-35 SWD M. W. #3-Deep	78	108	20.2	3.00	1,104	164
Quality Control		NR	50.6	50.8	1.94	9,690	NR
True Value QC		NR	50.0	50.0	2.00	10,000	NR
% Recovery		NR	101	102	97.0	96.9	NR
Relative Percent Difference		NR	< 0.1	3.1	2.1	0.5	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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		Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		09/25/07	09/27/07	09/25/07	09/25/07	09/24/07	09/26/07
H13351-1	F-35 SWD Monitor Well #1	1,380	23.2	0	488	7.84	2,902
H13351-2	F-35 SWD Monitor Well #2	100	71.7	0	322	7.59	587
H13351-3	F-35 SWD M. W. #3-Shallow	192	73.5	0	200	7.94	789
H13351-4	F-35 SWD M. W. #3-Deep	204	72.8	0	200	7.88	772
Quality Control		500	28.5	NR	1000	6.97	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		570	114	NR	100	99.6	NR
Relative Percent Difference		< 0.1	7.2	NR	< 0.1	0.1	NR

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

9/28/07
Date

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

Receiving Date: 09/21/07
Reporting Date: 09/28/07
Project Owner: NOT GIVEN
Project Name: HOBBS N-6
Project Location: T19S-R38E-SEC5&6 E/H ~ LEA COUNTY, NM

Sampling Date: 09/19/07 & 09/20/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: HM/KS/AB

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:	09/28/07	09/28/07	09/28/07	09/27/07	09/24/07	09/25/07
H13351-5 G-35 SWD Monitor Well #1	657	16.0	15.3	5.37	3,220	448
H13351-6 G-35 SWD Monitor Well #2	38	38.6	9.68	2.35	420	172
H13351-7 G-35 SWD M.W. #3-Shallow	217	154	24.2	4.20	2,010	216
H13351-8 G-35 SWD M.W. #3-Deep	135	230	32.3	4.59	2,120	168
H13351-9 G-35 SWD Monitor Well #4	869	204	50.8	5.57	5,300	344
Quality Control	NR	50.6	50.8	1.94	9,690	NR
True Value QC	NR	50.0	50.0	2.00	10,000	NR
% Recovery	NR	101	102	97.0	96.9	NR
Relative Percent Difference	NR	< 0.1	3.1	2.1	0.5	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	09/25/07	09/27/07	09/25/07	09/25/07	09/24/07	09/26/07
H13351-5 G-35 SWD Monitor Well #1	800	22.2	24	424	8.24	1,738
H13351-6 G-35 SWD Monitor Well #2	16	25.6	0	210	7.80	262
H13351-7 G-35 SWD M.W. #3-Shallow	500	39.1	0	264	7.89	1,373
H13351-8 G-35 SWD M.W. #3-Deep	570	34.0	0	205	7.93	1,442
H13351-9 G-35 SWD Monitor Well #4	1,600	17.8	0	420	7.78	3,262
Quality Control	500	28.5	NR	1000	6.97	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	114	NR	100	99.6	NR
Relative Percent Difference	< 0.1	7.2	NR	< 0.1	0.1	NR

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

9/28/07
Date



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

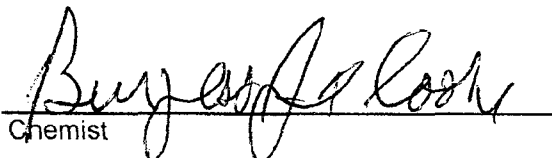
ANALYTICAL RESULTS FOR
RICE OPERATING COMPANY
ATTN: KRISTIN FARRIS-POPE
122 W. TAYLOR STREET
HOBBS, NM 88240
FAX TO: (575) 397-1471

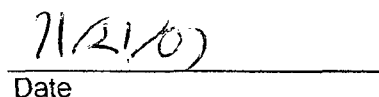
Receiving Date: 11/20/07
Reporting Date: 11/21/07
Project Number: NOT GIVEN
Project Name: VACUUM F-35 SWD AND G-35 SWD
Project Location: T17S-R35E-SEC35 F AND G ~ LEA CO., NM

Sampling Date: 11/19/07 & 11/20/07
Sample Type: WATER
Sample Condition: COOL & INTACT
Sample Received By: SB
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		11/21/07	11/21/07	11/21/07	11/21/07
H13758-1	F-35-SWD MW #1	0.719	0.203	0.429	0.665
H13758-2	F-35 SWD MW #2	<0.002	<0.002	<0.002	<0.006
H13758-3	F-35 SWD MW #3-SHALLOW	<0.002	<0.002	<0.002	<0.006
H13758-4	F-35 SWD MW #3-DEEP	<0.002	<0.002	<0.002	<0.006
H13758-5	G-35 SWD MW #1	0.003	<0.002	<0.002	<0.006
H13758-6	G-35 SWD MW #2	<0.002	<0.002	<0.002	<0.006
H13758-7	G-35 SWD MW #3-SHALLOW	<0.002	<0.002	<0.002	<0.006
H13758-8	G-35 SWD MW #3-DEEP	<0.002	<0.002	<0.002	<0.006
H13758-9	G-35 SWD MW #4	0.036	0.034	0.010	0.017
Quality Control		0.090	0.086	0.086	0.250
True Value QC		0.100	0.100	0.100	0.300
% Recovery		90.4	86.4	85.7	83.2
Relative Percent Difference		7.1	0.9	3.5	2.2

METHOD: EPA SW-846 8260


Chemist


Date

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. H13758-8 RICE shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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

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

Receiving Date: 11/20/07
Reporting Date: 11/28/07
Project Number: NOT GIVEN
Project Name: VACUUM F-35 SWD and G-35 SWD
Project Location: T17S-R35E-SEC35 F and G~LEA COUNTY, NM

Sampling Date: 11/19/07
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:		11/27/07	11/27/07	11/27/07	11/27/07	11/27/07	11/27/07
H13758-1	F-35 SWD M.W. #1	764	153	42.0	3.88	4,770	400
H13758-2	F-35 SWD M.W. #2	56	140	16.1	3.97	992	320
H13758-3	F-35 SWD M.W. #3-Shallow	84	55.9	12.9	2.93	777	164
H13758-4	F-35 SWD M.W. #3-Deep	86	129	3.23	3.49	1,119	156
Quality Control		NR	49.2	51.6	3.26	1,416	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	98.5	103	109	101	NR
Relative Percent Difference		NR	4.6	1.6	12.0	0.5	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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		Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		11/27/07	11/27/07	11/27/07	11/27/07	11/27/07	11/20/07
H13758-1	F-35 SWD M.W. #1	1,260	44.2	0	488	7.21	2,642
H13758-2	F-35 SWD M.W. #2	96	85.7	0	390	7.26	571
H13758-3	F-35 SWD M.W. #3-Shallow	104	66.3	0	200	7.68	467
H13758-4	F-35 SWD M.W. #3-Deep	216	64.6	0	190	7.64	735
Quality Control		500	26.4	NR	1000	7.08	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		100	106	NR	100	101	NR
Relative Percent Difference		< 0.1	14.9	NR	1.2	0.3	NR

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

11/28/07
Date

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

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

Receiving Date: 11/20/07
Reporting Date: 11/28/07
Project Number: NOT GIVEN
Project Name: VACUUM F-35 SWD and G-35 SWD
Project Location: T17S-R35E-SEC35 F and G~LEA COUNTY, NM

Sampling Date: 11/20/07
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:		11/27/07	11/27/07	11/27/07	11/27/07	11/27/07	11/27/07
H13758-5	G-35 SWD M.W. #1	353	25.3	6.45	5.71	1,736	376
H13758-6	G-35 SWD M.W. #2	6	66.5	11.3	2.17	449	180
H13758-7	G-35 SWD M.W. #3-Shallow	296	220	34.3	4.00	2,839	204
H13758-8	G-35 SWD M.W. #3-Deep	149	213	36.3	3.33	2,155	164
H13758-9	G-35 SWD M.W. #4	621	366	80.7	5.13	5,540	324
Quality Control		NR	49.2	51.6	3.26	1,416	NR
True Value QC		NR	50.0	50.0	3.00	1,413	NR
% Recovery		NR	98.5	103	109	101	NR
Relative Percent Difference		NR	4.6	1.6	12.0	0.5	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
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		Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:		11/27/07	11/27/07	11/27/07	11/27/07	11/27/07	11/26/07
H13758-5	G-35 SWD M.W. #1	320	35.3	0	459	7.88	969
H13758-6	G-35 SWD M.W. #2	16	25.0	0	220	7.72	283
H13758-7	G-35 SWD M.W. #3-Shallow	776	40.4	0	249	7.37	1,670
H13758-8	G-35 SWD M.W. #3-Deep	570	42.5	0	200	7.46	1,312
H13758-9	G-35 SWD M.W. #4	1,600	26.0	0	395	7.14	3,256
Quality Control		500	26.4	NR	1000	7.08	NR
True Value QC		500	25.0	NR	1000	7.00	NR
% Recovery		100	106	NR	100	101	NR
Relative Percent Difference		< 0.1	14.9	NR	1.2	0.3	NR

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

11/28/07
Date

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Explanation



Monitoring well
Ground water elevation (feet)



Potentiometric surface (feet)



0 200 400
Feet

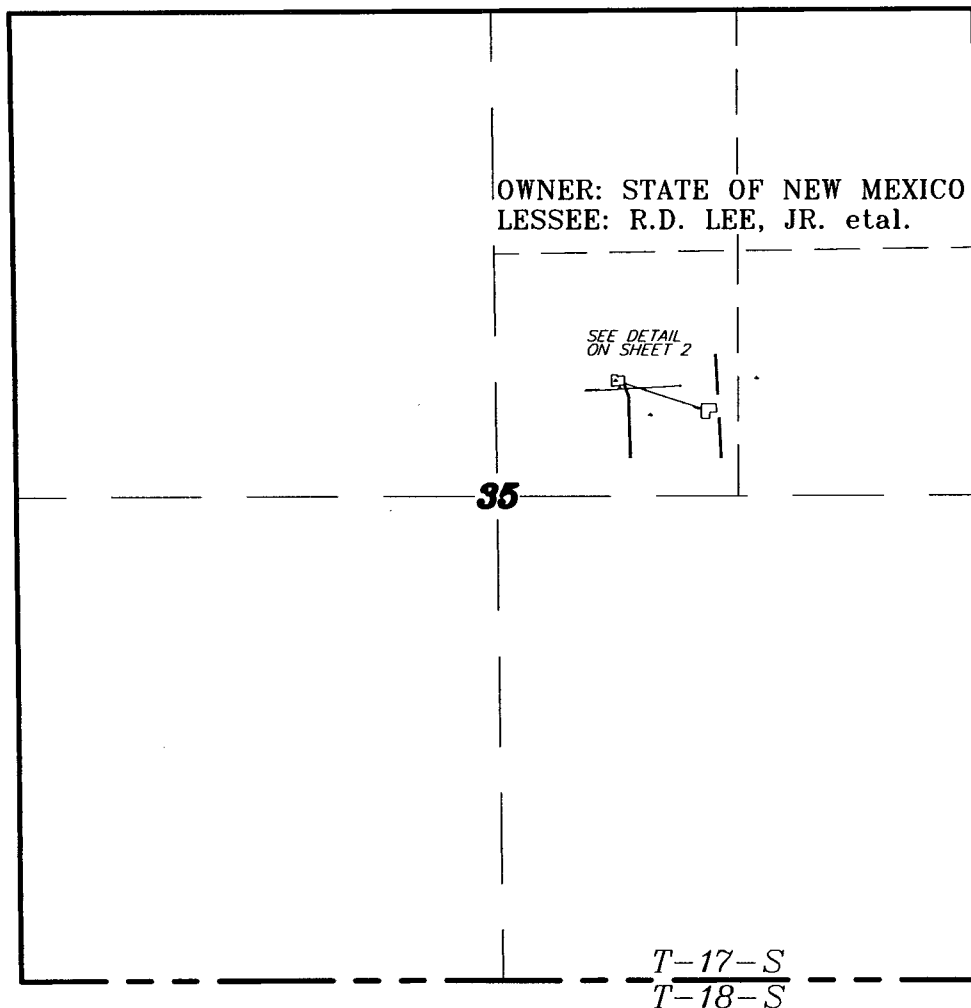
R.T. Hicks Consultants, Ltd
901 Rio Grande Blvd NW Suite F-142
Albuquerque, NM 87104
Ph: 505.266.5004

Potentiometric Surface (4th Qtr 2007)

Rice Operating Company: G-35 SWD 2007 Annual Report

January
2008

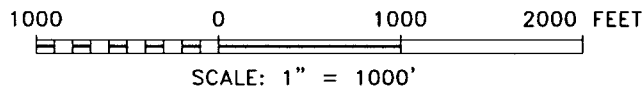
SECTION 35, TOWNSHIP 17 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



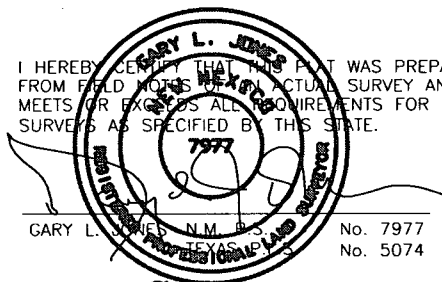
NOTE:
ELEVATIONS ARE ON BLACK MARK
ON NORTH SIDE OF PVC CASING.

NEW MEXICO STATE PLANE COORDINATES (NAD83)

WELL	NORTHING	EASTING	LATITUDE	LONGITUDE	ELEV. PVC	ELEV. GRND	ELEV. CONC.
MW-1	653445.387	820108.773	N 32°47'35.0"	W 103°25'35.2"	3902.99'	3900.50'	
MW-2	653460.917	820881.289	N 32°47'35.1"	W 103°25'25.1"	3900.11'	3897.93'	
MW-3	653257.704	820297.937	N 32°47'33.1"	W 103°25'32.0"	3901.09'	3998.64'	
MW-4	653404.88	820130.55	N 32°47'34.6"	W 103°25'33.9"	3902.54'	3900.3'	3900.6'



I HEREBY CERTIFY THAT THIS PLAN 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. JONES, N.M.P.S. No. 7977
LEA COUNTY, TEXAS No. 5074

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

W.O. Number: 18089 Drawn By: J. M. SMALL

Date: 05-08-2007 Disk: JMS 18089MW

RICE OPERATING COMPANY

REF: VAC. G-35

MONITOR WELLS LOCATED IN
SECTION 35, TOWNSHIP 17 SOUTH, RANGE 35 EAST,
N.M.P.M., LEA COUNTY, NEW MEXICO.

Survey Date: 05-07-2007 Sheet 1 of 2 Sheets