1R - 424

REPORTS

DATE:

2006

R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Fax: 505.266-0745

February 12, 2007

2007 FEB 16 AM 9 26

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

RE: 2006 Annual Ground Water Monitoring Report
M-5 SWD, Sec 05, T20S, R37E, Unit "M"
NMOCD Case #: Pending IR424

Dear Mr. Wayne Price:

R.T. Hicks Consultants, Ltd is pleased to submit the 2006 Annual Ground Water Monitoring Report for the M-5 SWD site located in the EME 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 vs. time for chloride and TDS.
3. Laboratory data sheets associated with the routine sampling for 2006.

The Corrective Action Plan was submitted to NMOCD on September 10, 2004. The CAP is pending NMOCD approval.

Thank you for your consideration of this annual summary information. The attached CD contains an electronic copy of the annual 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

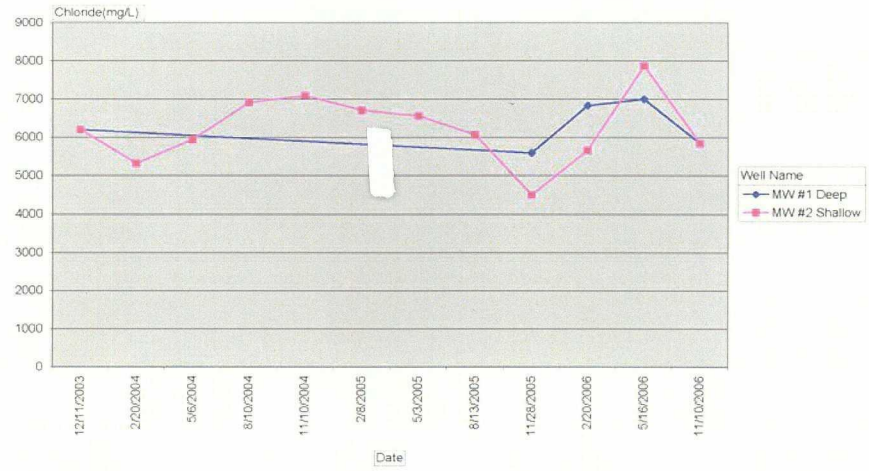
M-5 SWD

Well Name	*Date*	*DTW (ft)*	*Chloride (mg/L)*	*Sulfate (mg/L)*	*TDS (mg/L)*	*Benzene (ug/L)*	*Toluene (ug/L)*	*EthylBenzene (ug/L)*	*Total Xylenes (ug/L)*	*Comments*
MW #1 Deep	12/11/2003	33.40	6198	XXX	11736	<0.002	<0.002	<0.002	<0.006	Deep
MW #1 Deep	11/28/2005	28.1	5590	XXX	11400	<0.001	<0.001	<0001	<0.001	Deep
MW #1 Deep	2/20/2006	27.87	6830	503	14400	<0.001	<0.001	<0.001	<0.001	Deep
MW #1 Deep	5/16/2006	27.81	7000	752	13100	<0.001	<0.001	<0.001	<0.001	Deep
MW #1 Deep	11/10/2006	27.49	5840	421	12000	<0.001	<0.001	<0.001	<0.001	Clear no odor
MW #2 Shallow	12/11/2003	33.40	6198	90.5	11736	<0.002	<0.002	<0.002	<0.006	Deep
MW #2 Shallow	12/11/2003	33.28	6198	99.8	10784	<0.002	<0.002	<0.002	<0.006	Shallow
MW #2 Shallow	2/20/2004	33.37	5320	454	14500	<0.001	<0.001	<0.001	<0.001	Shallow
MW #2 Shallow	5/6/2004	32.79	5940	420	12400	<0.001	<0.001	<0.001	<0.001	Shallow
MW #2 Shallow	8/10/2004	32.52	6910	470	17300	<0.001	<0.001	<0.001	<0.001	Shallow
MW #2 Shallow	11/10/2004	31.63	7090	614	14000	<0.001	<0.001	<0.001	<0.001	Shallow
MW #2 Shallow	2/8/2005	28.85	6710	1450	13200	<0.001	<0.001	<0.001	<0.001	Shallow
MW #2 Shallow	5/3/2005	28.1	6560	595	16500	<0.001	<0.001	<0.001	<0.001	XXX
MW #2 Shallow	8/13/2005	XXX	6070	574	13800	<0.001	<0.001	<0.001	<0.001	XXX
MW #2 Shallow	11/28/2005	27.87	4500	1470	12300	<0.001	<0.001	<0.001	<0.001	Shallow
MW #2 Shallow	2/20/2006	27.25	5660	596	12400	<0.001	<0.001	<0.001	<0.001	Shallow
MW #2 Shallow	5/16/2006	27.81	7870	626	14300	<0.001	<0.001	<0.001	<0.001	Shallow
MW #2 Shallow	11/10/2006	27.39	5840	622	10500	<0.001	<0.001	<0.001	<0.001	Clear no odor

Ground Water Quality at M-5 SWD

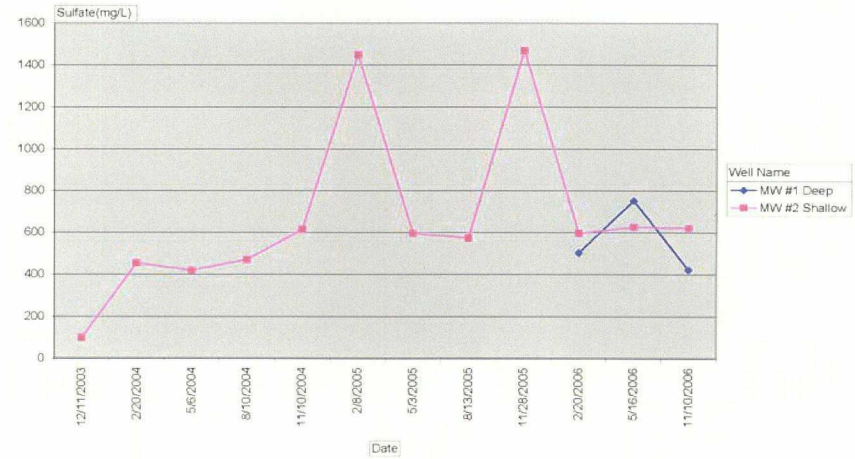
Site Name M-5 SWD

Chloride Over Time



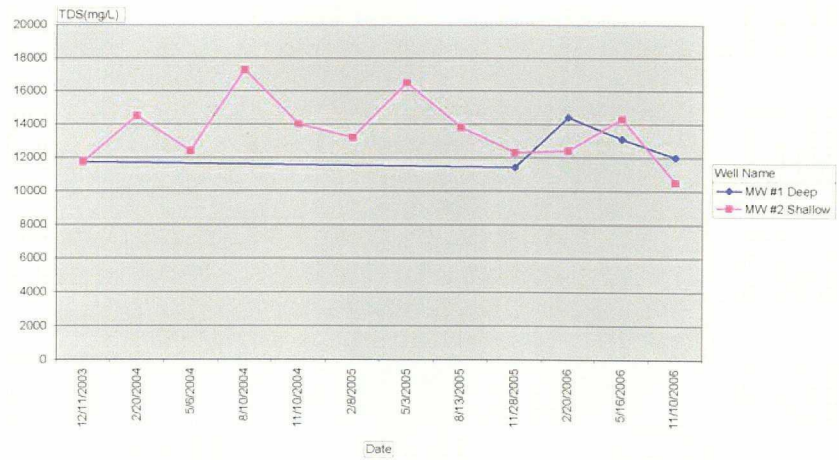
Site Name M-5 SWD

Sulfate Over Time



Site Name M-5 SWD

TDS Over Time



ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME M-5 SWD

Project Number: None Given

Location: Lea County

Lab Order Number: 6B23002

Report Date: 03/06/06

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1 Shallow	6B23002-01	Water	02/20/06 12:05	02/23/06 09:45
Monitor Well #1 Deep	6B23002-02	Water	02/20/06 11:45	02/23/06 09:45

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 Shallow (6B23002-01) Water									
Benzene	ND	0.00100	mg/L	1	EB62306	02/23/06	02/24/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*80-120*		"	"	"	"	
Monitor Well #1 Deep (6B23002-02) Water									
Benzene	ND	0.00100	mg/L	1	EB62306	02/23/06	02/24/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 Shallow (6B23002-01) Water									
Total Alkalinity	**237**	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	**5660**	100	"	200	EB62811	02/28/06	02/28/06	EPA 300.0	
Total Dissolved Solids	***12400***	5.00	"	1	EB62405	02/23/06	02/24/06	EPA 160.1	
Sulfate	**596**	100	"	200	EB62811	02/28/06	02/28/06	EPA 300.0	
Monitor Well #1 Deep (6B23002-02) Water									
Total Alkalinity	**182**	2.00	mg/L	1	EB62205	02/23/06	02/23/06	EPA 310.1M	
Chloride	**6830**	100	"	200	EB62811	02/28/06	02/28/06	EPA 300.0	
Total Dissolved Solids	**14400**	5.00	"	1	EB62405	02/23/06	02/24/06	EPA 160.1	
Sulfate	**503**	100	"	200	EB62811	02/28/06	02/28/06	EPA 300.0	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 Shallow (6B23002-01) Water									
Calcium	**1470**	5.00	mg/L	500	EC60207	03/02/06	03/02/06	EPA 6010B	
Magnesium	**419**	0.100	"	100	"	"	"	"	
Potassium	**36.4**	0.500	"	10	"	"	"	"	
Sodium	**2610**	5.00	"	500	"	"	"	"	
Monitor Well #1 Deep (6B23002-02) Water									
Calcium	**2170**	5.00	mg/L	500	EC60207	03/02/06	03/02/06	EPA 6010B	
Magnesium	**529**	0.500	"	"	"	"	"	"	
Potassium	**35.5**	0.500	"	10	"	"	"	"	
Sodium	**2150**	5.00	"	500	"	"	"	"	

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Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62306 - EPA 5030C (GC)										
Blank (EB62306-BLK1)				Prepared & Analyzed: 02/23/06						
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	*33.3*		*ug/l*	*40.0*		*83.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*35.5*		"	*40.0*		*88.8*	*80-120*			
LCS (EB62306-BS1)				Prepared: 02/23/06 Analyzed: 02/27/06						
Benzene	0.0480	0.00100	mg/L	0.0500		96.0	80-120			
Toluene	0.0524	0.00100	"	0.0500		105	80-120			
Ethylbenzene	0.0564	0.00100	"	0.0500		113	80-120			
Xylene (p/m)	0.118	0.00100	"	0.100		118	80-120			
Xylene (o)	0.0577	0.00100	"	0.0500		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*40.5*		*ug/l*	*40.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.4*		"	*40.0*		*96.0*	*80-120*			
Calibration Check (EB62306-CCV1)				Prepared: 02/23/06 Analyzed: 02/27/06						
Benzene	47.3		ug/l	50.0		94.6	80-120			
Toluene	52.9		"	50.0		106	80-120			
Ethylbenzene	59.9		"	50.0		120	80-120			
Xylene (p/m)	120		"	100		120	80-120			
Xylene (o)	59.7		"	50.0		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.5*		"	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.5*		"	*40.0*		*119*	*80-120*			
Matrix Spike (EB62306-MS1)	**Source: 6B23001-01**			Prepared: 02/23/06 Analyzed: 02/27/06						
Benzene	0.0418	0.00100	mg/L	0.0500	ND	83.6	80-120			
Toluene	0.0464	0.00100	"	0.0500	ND	92.8	80-120			
Ethylbenzene	0.0521	0.00100	"	0.0500	ND	104	80-120			
Xylene (p/m)	0.109	0.00100	"	0.100	ND	109	80-120			
Xylene (o)	0.0537	0.00100	"	0.0500	ND	107	80-120			
Surrogate: a,a,a-Trifluorotoluene	*38.4*		*ug/l*	*40.0*		*96.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.3*		"	*40.0*		*103*	*80-120*			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EB62306 - EPA 5030C (GC)										
Matrix Spike Dup (EB62306-MSD1)	**Source: 6B23001-01**			Prepared: 02/23/06 Analyzed: 02/27/06						
Benzene	0.0475	0.00100	mg/L	0.0500	ND	95.0	80-120	12.8	20	
Toluene	0.0524	0.00100	"	0.0500	ND	105	80-120	12.3	20	
Ethylbenzene	0.0577	0.00100	"	0.0500	ND	115	80-120	10.0	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	9.61	20	
Xylene (o)	0.0591	0.00100	"	0.0500	ND	118	80-120	9.78	20	
Surrogate: a,a,a-Trifluorotoluene	*40.3*		*ug/l*	*40.0*		*101*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.3*		*"*	*40.0*		*103*	*80-120*			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

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 EB62205 - General Preparation (WetChem)										
Blank (EB62205-BLK1)				Prepared & Analyzed: 02/23/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EB62205-BS1)				Prepared & Analyzed: 02/23/06						
Bicarbonate Alkalinity	207	2.00	mg/L	200		104	85-115			
Duplicate (EB62205-DUP1)	**Source: 6B16004-01**			Prepared & Analyzed: 02/23/06						
Total Alkalinity	273	2.00	mg/L		278			1.81	20	
Reference (EB62205-SRM1)				Prepared & Analyzed: 02/23/06						
Total Alkalinity	97.0		mg/L	100		97.0	90-110			
Batch EB62405 - General Preparation (WetChem)										
Blank (EB62405-BLK1)				Prepared: 02/23/06 Analyzed: 02/24/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EB62405-DUP1)	**Source: 6B17004-01**			Prepared: 02/23/06 Analyzed: 02/24/06						
Total Dissolved Solids	178	5.00	mg/L		178			0.00	5	
Batch EB62811 - General Preparation (WetChem)										
Blank (EB62811-BLK1)				Prepared & Analyzed: 02/28/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EB62811-BS1)				Prepared & Analyzed: 02/28/06						
Chloride	8.76	0.500	mg/L	10.0		87.6	80-120			
Sulfate	8.40	0.500	"	10.0		84.0	80-120			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

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 EB62811 - General Preparation (WetChem)										
Calibration Check (EB62811-CCV1)				Prepared & Analyzed: 02/28/06						
Sulfate	9.25		mg/L	10.0		92.5	80-120			
Chloride	9.36		"	10.0		93.6	80-120			
Duplicate (EB62811-DUP1)	**Source: 6B23001-01**			Prepared & Analyzed: 02/28/06						
Chloride	7740	100	mg/L		7510			3.02	20	
Sulfate	956	100	"		889			7.26	20	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

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 EC60207 - 6010B/No Digestion										
Blank (EC60207-BLK1)				Prepared & Analyzed: 03/02/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EC60207-CCV1)				Prepared & Analyzed: 03/02/06						
Calcium	2.15		mg/L	2.00		108	85-115			
Magnesium	2.20		"	2.00		110	85-115			
Potassium	1.72		"	2.00		86.0	85-115			
Sodium	1.87		"	2.00		93.5	85-115			
Duplicate (EC60207-DUP1)	**Source: 6B17004-01**			Prepared & Analyzed: 03/02/06						
Calcium	106	0.500	mg/L		102			3.85	20	
Magnesium	20.6	0.0100	"		22.2			7.48	20	
Potassium	15.4	0.500	"		15.8			2.56	20	
Sodium	91.5	0.500	"		88.3			3.56	20	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	03/06/06 11:34

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: Raland K. Tuttle Date: 3/6/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpriceswd@valornet.com
Company Name: RICE Operating Company
Company Address: 122 W. Taylor Street
City/State/Zip: Hobbs, New Mexico 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Rozanne Johnson (505) 631-9310
Email: rozanne@valornet.com

Project Name: EME M-5 SWD
Project #:
Project Loc: Lea County
PO #:

6B23002

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TPH: 418.1 8015M 1005 1006	Analyze For: TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule)	Standard TAT
-01	Monitor Well #1 - Shallow	2/20/2006	12:05	3	X		2			1		X					X	X					X			X				X
-02	Monitor Well #1 - Deep	2/20/2006	11:45	3	X		2			1		X					X	X					X			X				X

Special Instructions:

PLEASE Email RESULTS TO: kpriceswd@valornet.com & mfranks@riceswd.com

Sample Containers Intact? (Y) N
Labels on container? (Y) N
Custody Seals: (Containers) / (Cooler)
Temperature Upon Receipt: -2.5

Laboratory Comments: not frozen

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	2-23-06	6:00	James Johnson	2/23/06	6:01
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
James Johnson	2/23/06	9:45	Celeste Keely	2/23/06	9:45

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

Client: Rice Dp.

Date/Time: 2/23/06 9:45

Order #: 6B23002

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	-2.5 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

Contact Person: - Date/Time: Contacted by:

Regarding:

Corrective Action Taken:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME M-5 SWD

Project Number: None Given

Location: Lea County

Lab Order Number: 6E18014

Report Date: 05/25/06

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1 Shallow	6E18014-01	Water	05/16/06 11:35	05/18/06 12:00
Monitor Well #1 Deep	6E18014-02	Water	05/16/06 12:40	05/18/06 12:00

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 Shallow (6E18014-01) Water									
Benzene	ND	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*114 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.2 %*	*80-120*		"	"	"	"	
Monitor Well #1 Deep (6E18014-02) Water									
Benzene	ND	0.00100	mg/L	1	EE62101	05/21/06	05/22/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*112 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 Shallow (6E18014-01) Water									
Total Alkalinity	**206**	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	**7000**	100	"	200	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	**13100**	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	**752**	100	"	200	EE62205	05/22/06	05/22/06	EPA 300.0	
Monitor Well #1 Deep (6E18014-02) Water									
Total Alkalinity	**198**	2.00	mg/L	1	EE62220	05/22/06	05/22/06	EPA 310.1M	
Chloride	**7870**	100	"	200	EE62205	05/22/06	05/22/06	EPA 300.0	
Total Dissolved Solids	**14300**	5.00	"	1	EE61919	05/18/06	05/18/06	EPA 160.1	
Sulfate	**626**	100	"	200	EE62205	05/22/06	05/22/06	EPA 300.0	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 Shallow (6E18014-01) Water									
Calcium	**1280**	2.00	mg/L	200	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	**366**	0.200	"	"	"	"	"	"	
Potassium	**23.8**	2.50	"	50	"	"	"	"	
Sodium	**2070**	5.00	"	500	"	"	"	"	
Monitor Well #1 Deep (6E18014-02) Water									
Calcium	**1830**	2.00	mg/L	200	EE61926	05/19/06	05/19/06	EPA 6010B	
Magnesium	**417**	0.200	"	"	"	"	"	"	
Potassium	**20.6**	2.50	"	50	"	"	"	"	
Sodium	**1600**	5.00	"	500	"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE62101 - EPA 5030C (GC)										
Blank (EE62101-BLK1)				Prepared & Analyzed: 05/21/06						
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	*42.9*		*ug/l*	*40.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.2*		"	*40.0*		*80.5*	*80-120*			
LCS (EE62101-BS1)				Prepared & Analyzed: 05/21/06						
Benzene	0.0415	0.00100	mg/L	0.0500		83.0	80-120			
Toluene	0.0421	0.00100	"	0.0500		84.2	80-120			
Ethylbenzene	0.0463	0.00100	"	0.0500		92.6	80-120			
Xylene (p/m)	0.102	0.00100	"	0.100		102	80-120			
Xylene (o)	0.0504	0.00100	"	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	*42.7*		*ug/l*	*40.0*		*107*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.2*		"	*40.0*		*90.5*	*80-120*			
Calibration Check (EE62101-CCV1)				Prepared & Analyzed: 05/21/06						
Benzene	44.3		ug/l	50.0		88.6	80-120			
Toluene	44.3		"	50.0		88.6	80-120			
Ethylbenzene	55.3		"	50.0		111	80-120			
Xylene (p/m)	99.1		"	100		99.1	80-120			
Xylene (o)	49.1		"	50.0		98.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.6*		"	*40.0*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*34.8*		"	*40.0*		*87.0*	*80-120*			
Matrix Spike (EE62101-MS1)	**Source: 6E17005-01**			Prepared: 05/21/06 Analyzed: 05/22/06						
Benzene	0.0444	0.00100	mg/L	0.0500	ND	88.8	80-120			
Toluene	0.0454	0.00100	"	0.0500	ND	90.8	80-120			
Ethylbenzene	0.0488	0.00100	"	0.0500	ND	97.6	80-120			
Xylene (p/m)	*0.108*	*0.00100*	"	*0.100*	ND	*108*	*80-120*			
Xylene (o)	0.0531	0.00100	"	0.0500	ND	106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*45.5*		*ug/l*	*40.0*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*36.9*		"	*40.0*		*92.2*	*80-120*			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE62101 - EPA 5030C (GC)										
Matrix Spike Dup (EE62101-MSD1)	**Source: 6E17005-01**			Prepared: 05/21/06 Analyzed: 05/22/06						
Benzene	0.0439	0.00100	mg/L	0.0500	ND	87.8	80-120	1.13	20	
Toluene	0.0447	0.00100	"	0.0500	ND	89.4	80-120	1.55	20	
Ethylbenzene	0.0481	0.00100	"	0.0500	ND	96.2	80-120	1.44	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	0.930	20	
Xylene (o)	0.0521	0.00100	"	0.0500	ND	104	80-120	1.90	20	
Surrogate: a,a,a-Trifluorotoluene	*46.4*		*ug/l*	*40.0*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*33.4*		*"*	*40.0*		*83.5*	*80-120*			

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

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 EE61919 - Filtration Preparation										
Blank (EE61919-BLK1)				Prepared & Analyzed: 05/18/06						
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EE61919-DUP1)		**Source: 6E18012-01**		Prepared & Analyzed: 05/18/06						
Total Dissolved Solids	1420	5.00	mg/L		1470			3.46	5	
Batch EE62205 - General Preparation (WetChem)										
Blank (EE62205-BLK1)				Prepared & Analyzed: 05/22/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EE62205-BS1)				Prepared & Analyzed: 05/22/06						
Sulfate	8.20		mg/L	10.0		82.0	80-120			
Chloride	10.1		"	10.0		101	80-120			
Calibration Check (EE62205-CCV1)				Prepared & Analyzed: 05/22/06						
Chloride	10.1		mg/L	10.0		101	80-120			
Sulfate	9.63		"	10.0		96.3	80-120			
Duplicate (EE62205-DUP1)		**Source: 6E18012-01**		Prepared & Analyzed: 05/22/06						
Sulfate	307	10.0	mg/L		304			0.982	20	
Chloride	343	10.0	"		344			0.291	20	
Duplicate (EE62205-DUP2)		**Source: 6E18015-01**		Prepared & Analyzed: 05/22/06						
Chloride	415	10.0	mg/L		412			0.726	20	
Sulfate	50.3	10.0	"		50.6			0.595	20	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

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 EE62205 - General Preparation (WetChem)										
Matrix Spike (EE62205-MS1)	**Source: 6E18012-01**			Prepared & Analyzed: 05/22/06						
Chloride	565	10.0	mg/L	200	344	110	80-120			
Sulfate	465	10.0	"	200	304	80.5	80-120			
Matrix Spike (EE62205-MS2)	**Source: 6E18015-01**			Prepared & Analyzed: 05/22/06						
Chloride	654	10.0	mg/L	200	412	121	80-120			S-07
Sulfate	200	10.0	"	200	50.6	74.7	80-120			S-07
Batch EE62220 - General Preparation (WetChem)										
Blank (EE62220-BLK1)				Prepared & Analyzed: 05/22/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EE62220-BS1)				Prepared & Analyzed: 05/22/06						
Bicarbonate Alkalinity	214	2.00	mg/L	200		107	85-115			
Duplicate (EE62220-DUP1)	**Source: 6E18012-01**			Prepared & Analyzed: 05/22/06						
Total Alkalinity	279	2.00	mg/L		280			0.358	20	
Reference (EE62220-SRM1)				Prepared & Analyzed: 05/22/06						
Total Alkalinity	96.0		mg/L	100		96.0	90-110			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

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 EE61926 - 6010B/No Digestion										
Blank (EE61926-BLK1)				Prepared & Analyzed: 05/19/06						
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (EE61926-CCV1)				Prepared & Analyzed: 05/19/06						
Calcium	2.30		mg/L	2.00		115	85-115			
Magnesium	2.21		"	2.00		110	85-115			
Potassium	1.80		"	2.00		90.0	85-115			
Sodium	1.81		"	2.00		90.5	85-115			
Duplicate (EE61926-DUP1)	**Source: 6E18012-01**			Prepared & Analyzed: 05/19/06						
Calcium	111	0.500	mg/L		111			0.00	20	
Magnesium	58.3	0.0100	"		56.5			3.14	20	
Potassium	12.2	0.500	"		12.9			5.58	20	
Sodium	266	0.500	"		271			1.86	20	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	05/25/06 16:13

Notes and Definitions

S-07	Recovery outside Laboratory historical or method prescribed limits.
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: Raland K Tuttle Date: 5/25/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com
Company Name: RICE Operating Company
Company Address: 122 W. Taylor Street
City/State/Zip: Hobbs, New Mexico 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Rozanne Johnson (505) 631-9310
Email: rozanne@valornet.com

Project Name: EME M-5 SWD
Project #:
Project Loc: Lea County
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TPH: 418.1 8015M 1005 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 (TOTAL: X)	RCI	N.O.R.M.	Total Dissolved Solids	RUSH TAT (Pre-Schedule)	Standard TAT
6E18014 -01	Monitor Well #1 Shallow	5/16/2006	11:35	3	X		2			1		X					X	X					X			X		X
-02	Monitor Well #1 Deep	5/16/2006	12:40	3	X		2			1		X					X	X					X			X		X

Special Instructions:
PLEASE Email RESULTS TO: kpope@riceswd.com & mfranks@riceswd.com

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: 1.0°C not frozen

Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	5/18/06	6:00	James Johnson	5/18/06	6:01
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
James Johnson	5/18/06	12:00	Roland Leo	5-18-06	1200

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

ient: Rice Operating Co.

ate/Time: 05-18-06 @ 1200

rder #: 6E18014

itials: JMM

Sample Receipt Checklist

mperature of container/cooler?	(Yes)	No	I.D C
ipping container/cooler in good condition?	(Yes)	No	
stody Seals intact on shipping container/cooler?	(Yes)	No	Not present
stody Seals intact on sample bottles?	(Yes)	No	Not present
ain of custody present?	(Yes)	No	
mple Instructions complete on Chain of Custody?	(Yes)	No	
ain of Custody signed when relinquished and received?	(Yes)	No	
ain of custody agrees with sample label(s)	(Yes)	No	
ntainer labels legible and intact?	(Yes)	No	
mple Matrix and properties same as on chain of custody?	(Yes)	No	
mples in proper container/bottle?	(Yes)	No	
mples properly preserved?	(Yes)	No	
mple bottles intact?	(Yes)	No	
servations documented on Chain of Custody?	(Yes)	No	
ntainers documented on Chain of Custody?	(Yes)	No	
fficient samole amount for indicated test?	(Yes)	No	
samples received within sufficient hold time?	(Yes)	No	
OC samples have zero headspace?	(Yes)	No	Not Applicable

ther observations:

Variance Documentation:

ontact Person: - Date/Time: Contacted by:

egarding:

orrective Action Taken:

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME M-5 SWD

Project Number: None Given

Location: T20S-R37E-Sec5M, Lea Co., NM

Lab Order Number: 6H25014

Report Date: 09/05/06

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1-Shallow	6H25014-01	Water	08/24/06 10:35	08-25-2006 15:22
Monitor Well #1-Deep	6H25014-02	Water	08/24/06 09:25	08-25-2006 15:22

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1-Shallow (6H25014-01) Water									
Benzene	ND	0.00100	mg/L	1	EH62909	08/29/06	08/29/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.2 %*	*80-120*		"	"	"	"	
Monitor Well #1-Deep (6H25014-02) Water									
Benzene	ND	0.00100	mg/L	1	EH62909	08/29/06	08/29/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*106 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*96.8 %*	*80-120*		"	"	"	"	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1-Shallow (6H25014-01) Water									
Total Alkalinity	**230**	2.00	mg/L	1	EH63106	08/31/06	08/31/06	EPA 310.1M	
Chloride	**6160**	100	"	200	EH63019	08/28/06	08/28/06	EPA 300.0	
Total Dissolved Solids	**11800**	10.0	"	1	EH62916	08/28/06	08/31/06	EPA 160.1	
Sulfate	**601**	100	"	200	EH63019	08/28/06	08/28/06	EPA 300.0	
Monitor Well #1-Deep (6H25014-02) Water									
Total Alkalinity	**202**	2.00	mg/L	1	EH63106	08/31/06	08/31/06	EPA 310.1M	
Chloride	**7100**	100	"	200	EH63019	08/28/06	08/28/06	EPA 300.0	
Total Dissolved Solids	**14100**	10.0	"	1	EH62916	08/28/06	08/31/06	EPA 160.1	
Sulfate	**460**	100	"	200	EH63019	08/28/06	08/28/06	EPA 300.0	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1-Shallow (6H25014-01) Water									
Calcium	**1150**	40.5	mg/L	500	EH62802	08/28/06	08/28/06	EPA 6010B	
Magnesium	**305**	1.80	"	50	"	"	"	"	
Potassium	**24.0**	3.00	"	"	"	"	"	"	
Sodium	**2150**	21.5	"	500	"	"	"	"	
Monitor Well #1-Deep (6H25014-02) Water									
Calcium	**1570**	40.5	mg/L	500	EH62802	08/28/06	08/28/06	EPA 6010B	
Magnesium	**316**	1.80	"	50	"	"	"	"	
Potassium	**21.9**	3.00	"	"	"	"	"	"	
Sodium	**1720**	21.5	"	500	"	"	"	"	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH62909 - EPA 5030C (GC)										
Blank (EH62909-BLK1)				Prepared & Analyzed: 08/29/06						
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	*42.1*		*ug/l*	*40.0*		*105*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.7*		*"*	*40.0*		*81.8*	*80-120*			
LCS (EH62909-BS1)				Prepared & Analyzed: 08/29/06						
Benzene	0.0499	0.00100	mg/L	0.0500		99.8	80-120			
Toluene	0.0528	0.00100	"	0.0500		106	80-120			
Ethylbenzene	0.0490	0.00100	"	0.0500		98.0	80-120			
Xylene (p/m)	0.113	0.00100	"	0.100		113	80-120			
Xylene (o)	0.0530	0.00100	"	0.0500		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	*43.9*		*ug/l*	*40.0*		*110*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.1*		*"*	*40.0*		*115*	*80-120*			
Calibration Check (EH62909-CCV1)				Prepared & Analyzed: 08/29/06						
Benzene	52.7		ug/l	50.0		105	80-120			
Toluene	56.2		"	50.0		112	80-120			
Ethylbenzene	55.8		"	50.0		112	80-120			
Xylene (p/m)	115		"	100		115	80-120			
Xylene (o)	57.3		"	50.0		115	80-120			
Surrogate: a,a,a-Trifluorotoluene	*44.7*		*"*	*40.0*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*46.4*		*"*	*40.0*		*116*	*80-120*			
Matrix Spike (EH62909-MS1)	**Source: 6H25012-04**			Prepared: 08/29/06 Analyzed: 08/30/06						
Benzene	0.0489	0.00100	mg/L	0.0500	ND	97.8	80-120			
Toluene	0.0506	0.00100	"	0.0500	ND	101	80-120			
Ethylbenzene	0.0510	0.00100	"	0.0500	ND	102	80-120			
Xylene (p/m)	0.117	0.00100	"	0.100	ND	117	80-120			
Xylene (o)	0.0538	0.00100	"	0.0500	ND	108	80-120			
Surrogate: a,a,a-Trifluorotoluene	*45.7*		*ug/l*	*40.0*		*114*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*47.4*		*"*	*40.0*		*118*	*80-120*			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH62909 - EPA 5030C (GC)										
Matrix Spike Dup (EH62909-MSD1)	**Source: 6H25012-04**			Prepared: 08/29/06 Analyzed: 08/30/06						
Benzene	0.0472	0.00100	mg/L	0.0500	ND	94.4	80-120	3.54	20	
Toluene	0.0489	0.00100	"	0.0500	ND	97.8	80-120	3.22	20	
Ethylbenzene	0.0471	0.00100	"	0.0500	ND	94.2	80-120	7.95	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	8.93	20	
Xylene (o)	0.0500	0.00100	"	0.0500	ND	100	80-120	7.69	20	
Surrogate: a,a,a-Trifluorotoluene	*41.2*		*ug/l*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.1*		*"*	*40.0*		*110*	*80-120*			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EH62916 - Filtration Preparation										
Blank (EH62916-BLK1)				Prepared: 08/28/06 Analyzed: 08/29/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EH62916-DUP1)		**Source: 6H25010-01**		Prepared: 08/28/06 Analyzed: 08/29/06						
Total Dissolved Solids	2480	10.0	mg/L		2580			3.95	5	
Duplicate (EH62916-DUP2)		**Source: 6H25013-01**		Prepared: 08/28/06 Analyzed: 08/29/06						
Total Dissolved Solids	1350	10.0	mg/L		1400			3.64	5	
Batch EH63019 - General Preparation (WetChem)										
Blank (EH63019-BLK1)				Prepared & Analyzed: 08/28/06						
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EH63019-BS1)				Prepared & Analyzed: 08/28/06						
Sulfate	10.1	0.500	mg/L	10.0		101	80-120			
Chloride	10.2	0.500	"	10.0		102	80-120			
Calibration Check (EH63019-CCV1)				Prepared & Analyzed: 08/28/06						
Sulfate	12.0		mg/L	10.0		120	80-120			
Chloride	9.87		"	10.0		98.7	80-120			
Duplicate (EH63019-DUP1)		**Source: 6H24003-01**		Prepared & Analyzed: 08/28/06						
Sulfate	225	5.00	mg/L		227			0.885	20	
Chloride	94.7	5.00	"		102			7.42	20	
Duplicate (EH63019-DUP2)		**Source: 6H25013-01**		Prepared & Analyzed: 08/28/06						
Sulfate	40.5	10.0	mg/L		40.9			0.983	20	
Chloride	420	10.0	"		418			0.477	20	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EH63019 - General Preparation (WetChem)										
Matrix Spike (EH63019-MS1)	**Source: 6H24003-01**			Prepared & Analyzed: 08/28/06						
Chloride	204	5.00	mg/L	100	102	102	80-120			
Sulfate	338	5.00	"	100	227	111	75-125			
Matrix Spike (EH63019-MS2)	**Source: 6H25013-01**			Prepared & Analyzed: 08/28/06						
Chloride	645	10.0	mg/L	200	418	114	80-120			
Sulfate	239	10.0	"	200	40.9	99.0	75-125			
Batch EH63106 - General Preparation (WetChem)										
Blank (EH63106-BLK1)				Prepared & Analyzed: 08/31/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EH63106-BS1)				Prepared & Analyzed: 08/31/06						
Bicarbonate Alkalinity	190	2.00	mg/L	200		95.0	85-115			
Duplicate (EH63106-DUP1)	**Source: 6H24003-01**			Prepared & Analyzed: 08/31/06						
Total Alkalinity	150	2.00	mg/L		156			3.92	20	
Reference (EH63106-SRM1)				Prepared & Analyzed: 08/31/06						
Total Alkalinity	254		mg/L	250		102	90-110			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EH62802 - 6010B/No Digestion										
Blank (EH62802-BLK1)				Prepared & Analyzed: 08/28/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EH62802-CCV1)				Prepared & Analyzed: 08/28/06						
Calcium	1.97		mg/L	2.00		98.5	85-115			
Magnesium	2.13		"	2.00		106	85-115			
Potassium	1.74		"	2.00		87.0	85-115			
Sodium	1.84		"	2.00		92.0	85-115			
Duplicate (EH62802-DUP1)	**Source: 6H25010-01**			Prepared & Analyzed: 08/28/06						
Calcium	267	4.05	mg/L		251			6.18	20	
Magnesium	81.9	1.80	"		77.6			5.39	20	
Potassium	7.20	0.600	"		7.76			7.49	20	
Sodium	396	2.15	"		409			3.23	20	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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: Raland K. Tuttle Date: 9/5/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope kpope@riceswd.com
Company Name: RICE Operating Company
Company Address: 122 W. Taylor Street
City/State/Zip: Hobbs, New Mexico 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Rozanne Johnson (505) 631-9310
Email: rozanne@valornet.com

Project Name: EME M-5 SWD
Project Number:
Project Loc: T20S-R37E-Sec5M, Lab County NM
PO Number:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl (2) 40 ml glass vials	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None (1) 1 Liter HDPE	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP:	Analyze For: TOTAL:	RUSH TAT (Pre-Schedule)	Standard TAT
36250-01	Monitor Well #1-Shallow	8/24/2006	10:35	3	X		2			1		X					X		X
-02	Monitor Well #1-Deep	8/24/2006	9:25	3	X		2			1		X					X		X

Analyze For: TPH: 418.1 8015M 1005 1008; Cations (Ca, Mg, Na, K); Anions (Cl, SO4, CO3, HCO3); SAR / ESP / CEC; Metals: As Ag Ba Cd Cr Pb Hg Se; Volatiles; Semivolatiles; BTEX 80218/5030; RCI; N.O.R.M.; Total Dissolved Solids

Special Instructions:

PLEASE Email RESULTS TO: kpope@riceswd.com; mfranks@riceswd.com
rozanne@valornet.com

Sample Containers Intact? Y N
Labels on container? Y N
Custody Seals: Containers / Cooler
Temperature Upon Receipt: 1.0°C
Laboratory Comments: not frozen

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	8-25-06	13:10	James Johnson	8-25-06	13:11
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	8-25-06	15:22		8-25-06	1522

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Rice Operating

Date/ Time: 08-25-06 @ 1522

Lab ID #: 6H25014

Initials: JMM

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	1.0 °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	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

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: EME M-5 SWD

Project Number: None Given

Location: T20S R37E Sec.5 M- Lea County, NM

Lab Order Number: 6K15002

Report Date: 12/01/06

Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1- Shallow	6K15002-01	Water	11/10/06 09:20	11-15-2006 08:10
Monitor Well #1- Deep	6K15002-02	Water	11/10/06 10:15	11-15-2006 08:10

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Shallow (6K15002-01) Water									
Benzene	ND	0.00100	mg/L	1	EK61614	11/16/06	11/19/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*110 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.8 %*	*80-120*		"	"	"	"	
Monitor Well #1- Deep (6K15002-02) Water									
Benzene	ND	0.00100	mg/L	1	EK61614	11/16/06	11/19/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*109 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.2 %*	*80-120*		"	"	"	"	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Shallow (6K15002-01) Water									
Total Alkalinity	**224**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**5840**	100	"	200	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**10500**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**622**	100	"	200	EK61507	11/15/06	11/15/06	EPA 300.0	
Monitor Well #1- Deep (6K15002-02) Water									
Total Alkalinity	**216**	2.00	mg/L	1	EK61605	11/17/06	11/17/06	EPA 310.1M	
Chloride	**6570**	100	"	200	EK61507	11/15/06	11/15/06	EPA 300.0	
Total Dissolved Solids	**12000**	10.0	"	1	EK61611	11/15/06	11/16/06	EPA 160.1	
Sulfate	**421**	100	"	200	EK61507	11/15/06	11/15/06	EPA 300.0	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1- Shallow (6K15002-01) Water									
Calcium	**1400**	20.2	mg/L	250	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**487**	3.60	"	100	"	"	"	"	
Potassium	**39.2**	0.600	"	10	"	"	"	"	
Sodium	**2410**	10.8	"	250	"	"	"	"	
Monitor Well #1- Deep (6K15002-02) Water									
Calcium	**2180**	20.2	mg/L	250	EK61703	11/17/06	11/17/06	EPA 6010B	
Magnesium	**487**	3.60	"	100	"	"	"	"	
Potassium	**38.5**	0.600	"	10	"	"	"	"	
Sodium	**2310**	10.8	"	250	"	"	"	"	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK61614 - EPA 5030C (GC)										
Blank (EK61614-BLK1)				Prepared: 11/16/06 Analyzed: 11/17/06						
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	*47.8*		*ug/l*	*40.0*		*120*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*40.5*		"	*40.0*		*101*	*80-120*			
LCS (EK61614-BS1)				Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0594	0.00100	mg/L	0.0500		119	80-120			
Toluene	0.0562	0.00100	"	0.0500		112	80-120			
Ethylbenzene	0.0458	0.00100	"	0.0500		91.6	80-120			
Xylene (p/m)	0.0949	0.00100	"	0.100		94.9	80-120			
Xylene (o)	0.0499	0.00100	"	0.0500		99.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	*46.1*		*ug/l*	*40.0*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*44.2*		"	*40.0*		*110*	*80-120*			
Calibration Check (EK61614-CCV1)				Prepared: 11/16/06 Analyzed: 11/20/06						
Benzene	54.7		ug/l	50.0		109	80-120			
Toluene	48.5		"	50.0		97.0	80-120			
Ethylbenzene	42.1		"	50.0		84.2	80-120			
Xylene (p/m)	83.0		"	100		83.0	80-120			
Xylene (o)	43.3		"	50.0		86.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.4*		"	*40.0*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.0*		"	*40.0*		*92.5*	*80-120*			
Matrix Spike (EK61614-MS1)	**Source: 6K13007-01**			Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0551	0.00100	mg/L	0.0500		110	80-120			
Toluene	0.0498	0.00100	"	0.0500		99.6	80-120			
Ethylbenzene	0.0401	0.00100	"	0.0500		80.2	80-120			
Xylene (p/m)	0.0844	0.00100	"	0.100		84.4	80-120			
Xylene (o)	0.0442	0.00100	"	0.0500		88.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	*41.1*		*ug/l*	*40.0*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.4*		"	*40.0*		*106*	*80-120*			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EK61614 - EPA 5030C (GC)										
Matrix Spike Dup (EK61614-MSD1)	**Source: 6K13007-01**			Prepared: 11/16/06 Analyzed: 11/17/06						
Benzene	0.0580	0.00100	mg/L	0.0500		116	80-120	5.31	20	
Toluene	0.0550	0.00100	"	0.0500		110	80-120	9.92	20	
Ethylbenzene	0.0421	0.00100	"	0.0500		84.2	80-120	4.87	20	
Xylene (p/m)	0.0909	0.00100	"	0.100		90.9	80-120	7.42	20	
Xylene (o)	0.0455	0.00100	"	0.0500		91.0	80-120	2.90	20	
Surrogate: a,a,a-Trifluorotoluene	*46.3*		*ug/l*	*40.0*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*42.0*		*"*	*40.0*		*105*	*80-120*			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EK61507 - General Preparation (WetChem)										
Blank (EK61507-BLK1)				Prepared & Analyzed: 11/15/06						
Sulfate	0.579	0.500	mg/L							B
Chloride	ND	0.500	"							
LCS (EK61507-BS1)				Prepared & Analyzed: 11/15/06						
Sulfate	10.9	0.500	mg/L	10.0		109	80-120			
Chloride	11.1	0.500	"	10.0		111	80-120			
Calibration Check (EK61507-CCV1)				Prepared & Analyzed: 11/15/06						
Chloride	10.7		mg/L	10.0		107	80-120			
Sulfate	12.0		"	10.0		120	80-120			
Duplicate (EK61507-DUP1)	**Source: 6K15004-01**			Prepared & Analyzed: 11/15/06						
Sulfate	79.9	5.00	mg/L		79.8			0.125	20	
Chloride	232	5.00	"		234			0.858	20	
Duplicate (EK61507-DUP2)	**Source: 6K15006-07**			Prepared & Analyzed: 11/15/06						
Sulfate	78.2	5.00	mg/L		78.1			0.128	20	
Chloride	37.9	5.00	"		43.7			14.2	20	
Matrix Spike (EK61507-MS1)	**Source: 6K15004-01**			Prepared & Analyzed: 11/15/06						
Chloride	345	5.00	mg/L	100	234	111	80-120			
Sulfate	175	5.00	"	100	79.8	95.2	80-120			
Matrix Spike (EK61507-MS2)	**Source: 6K15006-07**			Prepared & Analyzed: 11/15/06						
Chloride	142	5.00	mg/L	100	43.7	98.3	80-120			
Sulfate	175	5.00	"	100	78.1	96.9	80-120			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EK61605 - General Preparation (WetChem)										
Blank (EK61605-BLK1)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	ND	2.00	mg/L							
Blank (EK61605-BLK2)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	ND	2.00	mg/L							
LCS (EK61605-BS1)				Prepared & Analyzed: 11/17/06						
Bicarbonate Alkalinity	172		mg/L	200		86.0	85-115			
LCS (EK61605-BS2)				Prepared & Analyzed: 11/17/06						
Bicarbonate Alkalinity	172		mg/L	200		86.0	85-115			
Hydroxide Alkalinity	0.00	0.100	"				85-115			
Duplicate (EK61605-DUP1)		**Source: 6K15001-01**		Prepared & Analyzed: 11/17/06						
Total Alkalinity	238	2.00	mg/L		238			0.00	20	
Carbonate Alkalinity	0.00	0.100	"		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	"		0.00				20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Duplicate (EK61605-DUP2)		**Source: 6K16005-01**		Prepared & Analyzed: 11/17/06						
Total Alkalinity	296	2.00	mg/L		300			1.34	20	
Carbonate Alkalinity	0.00	0.100	"		0.00				20	
Bicarbonate Alkalinity	0.00	2.00	"		300				20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EK61605-SRM1)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	238		mg/L	250		95.2	90-110			
Reference (EK61605-SRM2)				Prepared & Analyzed: 11/17/06						
Total Alkalinity	238		mg/L	250		95.2	90-110			

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EK61611 - Filtration Preparation										
Blank (EK61611-BLK1)				Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	ND	10.0	mg/L							
Duplicate (EK61611-DUP1)		**Source: 6K15001-01**		Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	14000	10.0	mg/L		13200			5.88	5	QR-03
Duplicate (EK61611-DUP2)		**Source: 6K15005-03**		Prepared: 11/15/06 Analyzed: 11/16/06						
Total Dissolved Solids	586	10.0	mg/L		622			5.96	5	QR-03

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

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 EK61703 - 6010B/No Digestion										
Blank (EK61703-BLK1)				Prepared & Analyzed: 11/17/06						
Calcium	ND	0.0810	mg/L							
Magnesium	ND	0.0360	"							
Potassium	ND	0.0600	"							
Sodium	ND	0.0430	"							
Calibration Check (EK61703-CCV1)				Prepared & Analyzed: 11/17/06						
Calcium	2.17		mg/L	2.00		108	85-115			
Magnesium	2.21		"	2.00		110	85-115			
Potassium	1.74		"	2.00		87.0	85-115			
Sodium	1.88		"	2.00		94.0	85-115			
Duplicate (EK61703-DUP1)	**Source: 6K15001-01**			Prepared & Analyzed: 11/17/06						
Calcium	1300	40.5	mg/L		1340			3.03	20	
Magnesium	461	3.60	"		461			0.00	20	
Potassium	55.7	0.600	"		53.2			4.59	20	
Sodium	2890	21.5	"		3100			7.01	20	

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Rice Operating Co.	Project: EME M-5 SWD	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 12/1/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

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

Project Manager: Kristin Farris Pope kpope@riceswd.com

Company Name: RICE Operating Company

Company Address: 122 W. Taylor Street

City/State/Zip: Hobbs, New Mexico 88240

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Sampler Signature: Rozanne Johnson (505)631-9310 e-mail: rozanne@valornet.com

Project Name: EME M-5 SWD

Project #:

Project Loc: T20S R37E Sec5 M ~ Lea County New Mexico

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

(lab use only)

ORDER #: 0K15002

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl (2) 40 ml glass vials	H_2SO_4	NaOH	$Na_2S_2O_3$	None (1) 1 Liter HDPE	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles (BTEX-N 8260)	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Total Dissolved Solids			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	Monitor Well #1-Shallow			11/10/2006	9:20		3	X		2				1		GW					X	X					X			X				X
02	Monitor Well #1-Deep			11/10/2006	10:15		3	X		2				1		GW					X	X					X			X				X

Special Instructions:

Please email to : kpope@riceswd.com mfranks@riceswd.com rozanne@valornet.com

Relinquished by:	Date	Time	Received by:	Date	Time
Rozanne Johnson	11/14/06	20:00	James Johnson	11/14/06	20:01
James Johnson	11/15/06	8:10	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Corin Lee	11/15/06	8:10

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star

Temperature Upon Receipt: 0.5 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

ent: Rio Op.

te/ Time: 11/15/06 8:10

o ID # : 6K15002

ials: CK

Sample Receipt Checklist

				Client Initials
Temperature of container/ cooler?	Yes	No	0.5 °C	
Shipping container in good condition?	~~Yes~~	No		
Custody Seals intact on shipping container/ cooler?	~~Yes~~	No	Not Present	
Custody Seals intact on sample bottles/ container?	~~Yes~~	No	Not Present	
Chain of Custody present?	~~Yes~~	No		
Sample instructions complete of Chain of Custody?	~~Yes~~	No		
Chain of Custody signed when relinquished/ received?	~~Yes~~	No		
Chain of Custody agrees with sample label(s)?	~~Yes~~	No	ID written on Cont./ Lid	
Container label(s) legible and intact?	~~Yes~~	No	Not Applicable	
Sample matrix/ properties agree with Chain of Custody?	~~Yes~~	No		
Containers supplied by ELOT?	~~Yes~~	No		
Samples in proper container/ bottle?	~~Yes~~	No	See Below	
Samples properly preserved?	~~Yes~~	No	See Below	
Sample bottles intact?	~~Yes~~	No		
Preservations documented on Chain of Custody?	~~Yes~~	No		
Containers documented on Chain of Custody?	~~Yes~~	No		
Sufficient sample amount for indicated test(s)?	~~Yes~~	No	See Below	
All samples received within sufficient hold time?	~~Yes~~	No	See Below	
Subcontract of sample(s)?	Yes	No	Not Applicable	
VOC samples have zero headspace?	Yes	No	Not Applicable	

Variance Documentation

tact: _____ Contacted by: _____ Date/ Time: _____

arding: _____

ective Action Taken: _____

k 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