

AP - 46

ANNUAL MONITORING REPORT

YEAR(S):

2004

RICE *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7002 2410 0000 4940 1787

January 21, 2005

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

**RE: 2004 MONITOR WELL REPORT/SAMPLING SUMMARY
JUNCTION K-6, EME SWD SYSTEM
UNIT 'K', SEC. 6, T20S, R37E
NMOCD CASE #1R0427-88**

Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2004 Monitor Well Report for the EME K-6 junction box site located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. One monitoring well was installed in 2002 during the delineation of a junction box. This well is sampled quarterly pursuant to NMOCD guidelines. In 2004, ROC and Basin Environmental Service Technologies of Lovington sampled the well. In 2005, Trident Environmental (Trident) of Midland, Texas will sample the well and Environmental Lab of Texas of Odessa will continue to conduct analytical tests of the water samples.

Trident has been contracted by ROC to address groundwater concerns at this. NMOCD may expect the submission of an Investigation & Characterization Plan (ICP) this year.

ROC is the service provider (operator) for the EME Salt Water Disposal System and has no ownership of any portion of pipeline, well, or facility. The EME SWD System is owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis.

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

RICE OPERATING COMAPANY

A handwritten signature in black ink that reads "Kristin Farris Pope". The signature is written in a cursive, flowing style.

Kristin Farris Pope
Project Scientist

enclosures: Summary table & graph
 Analytical results
 map

cc: LBG, CDH, Trident, file, Rob Roy Industries,

Chris Williams
NMOCD, District I Office
1625 N. French Drive
Hobbs, NM 88240

EME Jct. K-6

unit 'K', Sec. 6, T20S, R37E

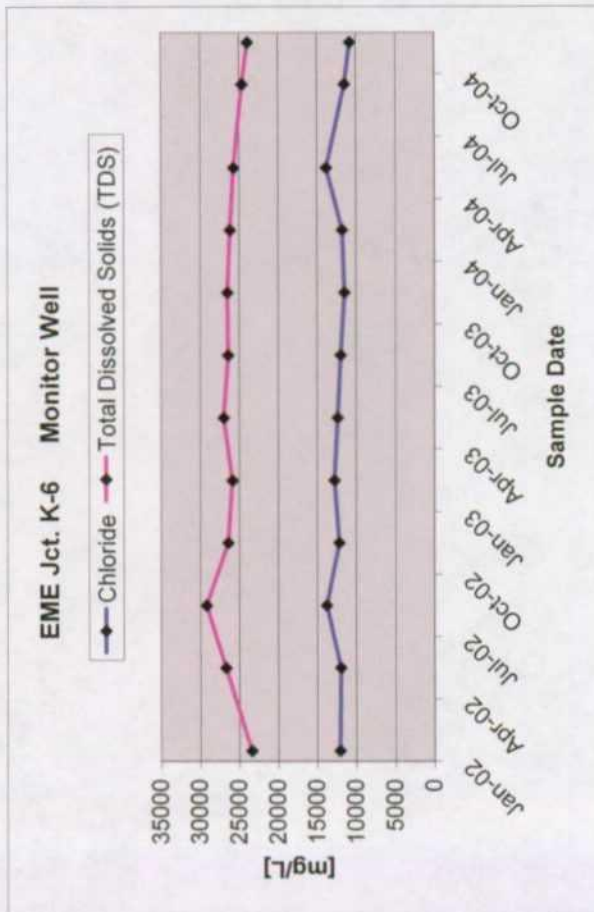
NMOCDCase #1R0427-88

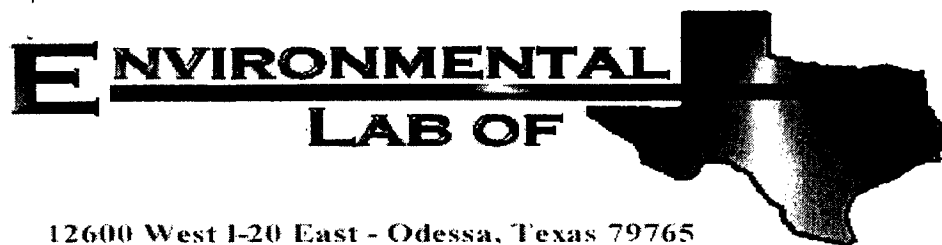
All concentrations are in mg/L

MW #	DEPTH TO WATER *	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	Cl ⁻	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	COMMENTS
1	37.20	43.50	1.000	3.10	01/25/02	12096	23370	<0.002	<0.002	0.002	0.006	
1	37.30	42.78	0.877	2.75	05/14/02	12000	26700	1.24	3.36	<1.00	3.54	sandy
1	37.52	42.80	0.845	2.50	08/28/02	13796	29180	<0.002	<0.002	0.003	<0.006	red & silty
1	38.65	40.60	0.312	1.00	11/11/02	12200	26400	0.001	0.001	0.001	0.003	silty
1	37.78	40.55	0.440	1.30	02/27/03	12800	25900	0.001	0.001	0.001	0.003	
1	37.80	41.00	0.512	1.50	05/29/03	12400	27000	0.002	0.001	0.001	0.001	
1	37.90	40.90	0.480	1.40	08/21/03	12000	26400	0.003	<0.001	0.002	0.004	
1	38.17	44.52	1.010	3.00	11/19/03	11500	26500	0.003	0.001	<0.001	0.001	
1	38.40	40.55	0.340	1.00	02/18/04	11796	26172	0.003	<0.002	<0.002	<0.006	
1	37.60	40.55	0.470	1.00	05/27/04	13800	25700	0.00137	0.000377	0.000601	0.000716	
1	37.96	40.34	0.380	2.28	09/07/04	11500	24600	0.00297	0.000395	0.00125	0.00317	bailer
1	37.53	40.34	0.450	2.70	11/24/04	10800	23900	0.00546	0.00425	0.00476	0.01519	bailer

* Depth to water measured from top of the casing
Casing is 2.938 ft

GPS coordinates: 13660187E 3608116N





12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: Jct. K-6
Project Number: None Given
Location: EME

Lab Order Number: 4K30009

Report Date: 12/09/04

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4K30009-01	Water	11/24/04 15:10	11/30/04 10:35

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4K30009-01) Water									
Benzene	0.00546	0.00100	mg/L	1	EL40601	12/02/04	12/03/04	EPA 8021B	
Toluene	0.00425	0.00100	"	"	"	"	"	"	
Ethylbenzene	0.00476	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00927	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00592	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		166 %	80-120		"	"	"	"	S-04
<i>Surrogate: 4-Bromofluorobenzene</i>		121 %	80-120		"	"	"	"	S-04

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4K30009-01) Water									
Total Alkalinity	542	2.00	mg/L	1	EL40313	12/03/04	12/03/04	EPA 310.2M	
Total Dissolved Solids	23900	5.00	"	"	EL40105	11/30/04	12/01/04	EPA 160.1	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4K30009-01) Water									
Calcium	1370	10.0	mg/L	1000	EL40101	11/30/04	11/30/04	EPA 6010B	
Magnesium	438	0.100	"	100	"	"	"	"	
Potassium	44.9	5.00	"	"	"	"	"	"	
Sodium	7400	10.0	"	1000	"	"	"	"	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

Anions by EPA Method 300.0
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4K30009-01) Water									
Chloride	10800	100	mg/L	200	EL40916	12/08/04	12/08/04	EPA 300.0	
Sulfate	4140	100	"	"	"	"	"	"	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

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 EL40601 - EPA 5030C (GC)

Blank (EL40601-BLK1)

Prepared & Analyzed: 12/02/04

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	0.0223		"	0.0200		112	80-120			
Surrogate: 4-Bromofluorobenzene	0.0183		"	0.0200		91.5	80-120			

LCS (EL40601-BS1)

Prepared & Analyzed: 12/02/04

Benzene	99.2		ug/l	100		99.2	80-120			
Toluene	107		"	100		107	80-120			
Ethylbenzene	107		"	100		107	80-120			
Xylene (p/m)	219		"	200		110	80-120			
Xylene (o)	116		"	100		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	0.0196		mg/L	0.0200		98.0	80-120			
Surrogate: 4-Bromofluorobenzene	0.0199		"	0.0200		99.5	80-120			

LCS Dup (EL40601-BSD1)

Prepared & Analyzed: 12/02/04

Benzene	100		ug/l	100		100	80-120	0.803	20	
Toluene	110		"	100		110	80-120	2.76	20	
Ethylbenzene	111		"	100		111	80-120	3.67	20	
Xylene (p/m)	230		"	200		115	80-120	4.44	20	
Xylene (o)	119		"	100		119	80-120	2.55	20	
Surrogate: a,a,a-Trifluorotoluene	0.0199		mg/L	0.0200		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	0.0202		"	0.0200		101	80-120			

Calibration Check (EL40601-CCV1)

Prepared: 12/02/04 Analyzed: 12/03/04

Benzene	98.7		ug/l	100		98.7	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	109		"	100		109	80-120			
Xylene (p/m)	221		"	200		110	80-120			
Xylene (o)	111		"	100		111	80-120			
Surrogate: a,a,a-Trifluorotoluene	0.0218		mg/L	0.0200		109	80-120			
Surrogate: 4-Bromofluorobenzene	0.0227		"	0.0200		114	80-120			

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

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 EL40601 - EPA 5030C (GC)

Matrix Spike (EL40601-MS1) **Source: 4K30004-03** Prepared: 12/02/04 Analyzed: 12/03/04

Benzene	107		ug/l	100	ND	107	80-120			
Toluene	108		"	100	ND	108	80-120			
Ethylbenzene	114		"	100	ND	114	80-120			
Xylene (p/m)	229		"	200	ND	114	80-120			
Xylene (o)	111		"	100	ND	111	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.0206		mg/L	0.0200		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.0201		"	0.0200		100	80-120			

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

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 EL40105 - General Preparation (WetChem)

Blank (EL40105-BLK1)

Prepared: 11/30/04 Analyzed: 12/01/04

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EL40105-DUP1)

Source: 4K24009-01

Prepared: 11/30/04 Analyzed: 12/01/04

Total Dissolved Solids 1480 5.00 mg/L 1480 0.00 20

Batch EL40313 - General Preparation (WetChem)

Blank (EL40313-BLK1)

Prepared & Analyzed: 12/03/04

Total Alkalinity ND 2.00 mg/L

Duplicate (EL40313-DUP1)

Source: 4K30004-01

Prepared & Analyzed: 12/03/04

Total Alkalinity 207 2.00 mg/L 208 0.482 20

Reference (EL40313-SRM1)

Prepared & Analyzed: 12/03/04

Carbonate Alkalinity 0.0501 mg/L 0.0500 100 80-120

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

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 EL40101 - 6010B/No Digestion

Blank (EL40101-BLK1)

Prepared & Analyzed: 11/30/04

Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							

Calibration Check (EL40101-CCV1)

Prepared & Analyzed: 11/30/04

Calcium	1.87		mg/L	2.00		93.5	85-115			
Magnesium	2.08		"	2.00		104	85-115			
Potassium	1.83		"	2.00		91.5	85-115			
Sodium	1.78		"	2.00		89.0	85-115			

Duplicate (EL40101-DUP1)

Source: 4K24009-01

Prepared & Analyzed: 11/30/04

Calcium	108	1.00	mg/L		122			12.2	20	
Magnesium	46.0	0.0100	"		51.6			11.5	20	
Potassium	11.1	0.500	"		13.2			17.3	20	
Sodium	222	1.00	"		235			5.69	20	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

Anions by EPA Method 300.0 - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch EL40916 - General Preparation (WetChem)									
Blank (EL40916-BLK1) Prepared & Analyzed: 12/08/04									
Sulfate	0.00	0.500	mg/L						
Chloride	0.00	0.500	"						
Blank (EL40916-BLK2) Prepared & Analyzed: 12/08/04									
Sulfate	0.00	0.500	mg/L						
Chloride	0.00	0.500	"						
LCS (EL40916-BS1) Prepared & Analyzed: 12/08/04									
Sulfate	11.7	0.500	mg/L	10.0		117 80-120			
Chloride	9.75	0.500	"	10.0		97.5 80-120			
LCS (EL40916-BS2) Prepared & Analyzed: 12/08/04									
Chloride	9.77	0.500	mg/L	10.0		97.7 80-120			
Sulfate	11.8	0.500	"	10.0		118 80-120			
LCS Dup (EL40916-BSD1) Prepared & Analyzed: 12/08/04									
Chloride	9.83	0.500	mg/L	10.0		98.3 80-120	0.817	20	
Sulfate	11.8	0.500	"	10.0		118 80-120	0.851	20	
LCS Dup (EL40916-BSD2) Prepared & Analyzed: 12/08/04									
Chloride	9.74	0.500	mg/L	10.0		97.4 80-120	0.308	20	
Sulfate	11.7	0.500	"	10.0		117 80-120	0.851	20	
Calibration Check (EL40916-CCV1) Prepared & Analyzed: 12/08/04									
Sulfate	11.7		mg/L	10.0		117 80-120			
Chloride	9.79		"	10.0		97.9 80-120			
Calibration Check (EL40916-CCV2) Prepared & Analyzed: 12/08/04									
Chloride	9.80		mg/L	10.0		98.0 80-120			
Sulfate	11.7		"	10.0		117 80-120			

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

Anions by EPA Method 300.0 - 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 EL40916 - General Preparation (WetChem)

Duplicate (EL40916-DUP1) **Source: 4L03001-01** Prepared & Analyzed: 12/08/04

Chloride	1570	20.0	mg/L		1330			16.6	20	
Sulfate	809	20.0	"		682			17.0	20	

Duplicate (EL40916-DUP2) **Source: 4L06003-02** Prepared & Analyzed: 12/08/04

Chloride	731	20.0	mg/L		725			0.824	20	
Sulfate	1210	20.0	"		1200			0.830	20	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
12/09/04 15:40

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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:

12-10-04

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

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

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris Pope

Company Name RICE Operating

Company Address: 122 W. Taylor St.

City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 393-9174

Fax No: (505) 397-1471

Sampler Signature: Jake Lane

Project Name:

Project #:

Project Loc: EME

PO#:

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 11-30-04 @ 1200

Order #: 4K 30009

Initials: JMM

Sample Receipt Checklist

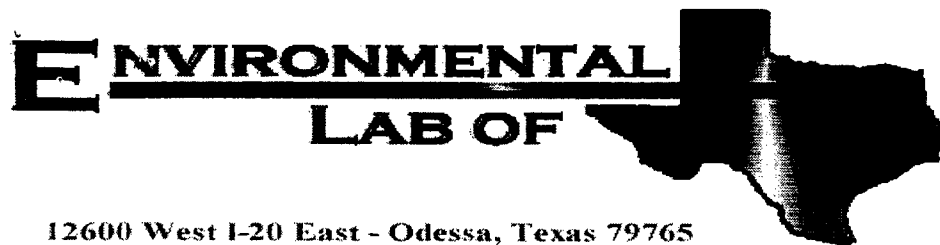
Temperature of container/cooler?	<input checked="" type="radio"/> Yes	No	O.S.	C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	<input checked="" type="radio"/> Not present	
Custody Seals intact on sample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

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____
Regarding: _____

Corrective Action Taken:



Analytical Report

Prepared for:

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

Project: Jct. K-6
Project Number: None Given
Location: EME

Lab Order Number: 4I10010

Report Date: 09/17/04

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	4I10010-01	Water	09/07/04 13:40	09/09/04 19:20

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4110010-01) Water									
Benzene	0.00297	0.00100	mg/L	1	E141604	09/14/04	09/14/04	EPA 8021B	
Toluene	J [0.000395]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	0.00125	0.00100	"	"	"	"	"	"	
Xylene (p/m)	0.00212	0.00100	"	"	"	"	"	"	
Xylene (o)	0.00105	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		117 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.0 %	80-120		"	"	"	"	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I10010-01) Water									
Chloride	11500	5.00	mg/L	1	EI41612	09/12/04	09/12/04	EPA 325.3M	
Total Dissolved Solids	24600	20.0	"	4	EI41702	09/13/04	09/13/04	EPA 160.1	
Sulfate	3640	25.0	"	50	EI41701	09/10/04	09/10/04	EPA 375.4	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (4I10010-01) Water									
Calcium	972	10.0	mg/L	1000	EI41506	09/15/04	09/15/04	EPA 6010B	
Magnesium	353	0.100	"	100	"	"	"	"	
Potassium	51.6	0.500	"	10	"	"	"	"	
Sodium	7570	10.0	"	1000	"	"	"	"	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

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 EI41604 - EPA 5030C (GC)

Blank (EI41604-BLK1)

Prepared & Analyzed: 09/14/04

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	20.0		ug/l	20.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	17.4		"	20.0		87.0	80-120			

LCS (EI41604-BS1)

Prepared & Analyzed: 09/14/04

Benzene	95.7		ug/l	100		95.7	80-120			
Toluene	110		"	100		110	80-120			
Ethylbenzene	108		"	100		108	80-120			
Xylene (p/m)	228		"	200		114	80-120			
Xylene (o)	103		"	100		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.5		"	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	23.5		"	20.0		118	80-120			

LCS Dup (EI41604-BSD1)

Prepared & Analyzed: 09/14/04

Benzene	92.0		ug/l	100		92.0	80-120	3.94	20	
Toluene	104		"	100		104	80-120	5.61	20	
Ethylbenzene	103		"	100		103	80-120	4.74	20	
Xylene (p/m)	215		"	200		108	80-120	5.41	20	
Xylene (o)	99.5		"	100		99.5	80-120	3.46	20	
Surrogate: a,a,a-Trifluorotoluene	20.6		"	20.0		103	80-120			
Surrogate: 4-Bromofluorobenzene	21.2		"	20.0		106	80-120			

Calibration Check (EI41604-CCV1)

Prepared & Analyzed: 09/14/04

Benzene	82.8		ug/l	100		82.8	80-120			
Toluene	94.0		"	100		94.0	80-120			
Ethylbenzene	91.4		"	100		91.4	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	89.9		"	100		89.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.1		"	20.0		90.5	80-120			
Surrogate: 4-Bromofluorobenzene	17.1		"	20.0		85.5	80-120			

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

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 EI41604 - EPA 5030C (GC)

Matrix Spike (EI41604-MS1) **Source: 4110005-02** Prepared: 09/14/04 Analyzed: 09/16/04

Benzene	81.1		ug/l	100	ND	81.1	80-120			
Toluene	83.7		"	100	ND	83.7	80-120			
Ethylbenzene	81.6		"	100	ND	81.6	80-120			
Xylene (p/m)	174		"	200	ND	87.0	80-120			
Xylene (o)	80.6		"	100	ND	80.6	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	17.0		"	20.0		85.0	80-120			
Surrogate: 4-Bromofluorobenzene	16.5		"	20.0		82.5	80-120			

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

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 EI41612 - General Preparation (WetChem)

Blank (EI41612-BLK1)

Prepared & Analyzed: 09/12/04

Chloride ND 5.00 mg/L

Matrix Spike (EI41612-MS1)

Source: 4I09007-03

Prepared & Analyzed: 09/12/04

Chloride 1280 5.00 mg/L 500 780 100 90-110

Matrix Spike Dup (EI41612-MSD1)

Source: 4I09007-03

Prepared & Analyzed: 09/12/04

Chloride 1280 5.00 mg/L 500 780 100 90-110 0.00 20

Reference (EI41612-SRM1)

Prepared & Analyzed: 09/12/04

Chloride 4960 mg/L 5000 99.2 80-120

Batch EI41701 - General Preparation (WetChem)

Blank (EI41701-BLK1)

Prepared & Analyzed: 09/10/04

Sulfate ND 0.500 mg/L

Calibration Check (EI41701-CCV1)

Prepared & Analyzed: 09/10/04

Sulfate 48.6 mg/L 50.0 97.2 80-120

Duplicate (EI41701-DUP1)

Source: 4I10005-01

Prepared & Analyzed: 09/10/04

Sulfate 128 1.00 mg/L 129 0.778 20

Batch EI41702 - Filtration Preparation

Blank (EI41702-BLK1)

Prepared & Analyzed: 09/13/04

Total Dissolved Solids ND 5.00 mg/L

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

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 EI41702 - Filtration Preparation

Duplicate (EI41702-DUP1)

Source: 4I10005-02

Prepared & Analyzed: 09/13/04

Total Dissolved Solids	797	5.00	mg/L		937			16.1	20	
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Rice Operating Co.
122 W. Taylor
Hobbs NM, 88240

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

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 EI41506 - General Preparation (Metals)

Blank (EI41506-BLK1)

Prepared & Analyzed: 09/15/04

Calcium	ND	0.0100	mg/L
Magnesium	ND	0.00100	"
Potassium	ND	0.0500	"
Sodium	ND	0.0100	"

Blank (EI41506-BLK2)

Prepared & Analyzed: 09/15/04

Calcium	ND	0.0100	mg/L
Magnesium	ND	0.00100	"
Potassium	ND	0.0500	"
Sodium	ND	0.0100	"

Calibration Check (EI41506-CCV1)

Prepared & Analyzed: 09/15/04

Calcium	2.03		mg/L	2.00	102	85-115
Magnesium	2.04		"	2.00	102	85-115
Potassium	1.75		"	2.00	87.5	85-115
Sodium	1.79		"	2.00	89.5	85-115

Calibration Check (EI41506-CCV2)

Prepared & Analyzed: 09/15/04

Calcium	1.93		mg/L	2.00	96.5	85-115
Magnesium	2.02		"	2.00	101	85-115
Potassium	1.76		"	2.00	88.0	85-115
Sodium	1.77		"	2.00	88.5	85-115

Duplicate (EI41506-DUP1)

Source: 4I03009-01

Prepared & Analyzed: 09/15/04

Calcium	281	1.00	mg/L	280	0.357	20
Magnesium	110	0.100	"	111	0.905	20
Potassium	8.18	0.500	"	8.31	1.58	20
Sodium	359	1.00	"	365	1.66	20

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

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 EI41506 - General Preparation (Metals)

Duplicate (EI41506-DUP2)		Source: 4I10015-01		Prepared & Analyzed: 09/15/04						
Calcium	20.2	0.100	mg/L		20.2			0.00	20	
Magnesium	28.4	0.0100	"		28.6			0.702	20	
Potassium	16.4	0.500	"		16.6			1.21	20	
Sodium	103	0.100	"		103			0.00	20	

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

Project: Jct. K-6
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

Notes and Definitions

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:

Raland K. Tuttle

Date:

9-18-04

Raland K. Tuttle, Lab Manager

Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist

Sandra Biezugbe, Lab Tech.

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

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

522

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Project #:

Project Loc:

PO #: 510

1.8
1.24-2
10-0
200

Analyze For:

[illegible]

Jeanne McMurrey

From: "Kristin Farris" <enviro@leaco.net>
To: "Jeanne McMurrey" <jeanne@elabtexas.com>
Sent: Friday, September 10, 2004 9:33 AM
Subject: MW samples

Please do not analyze the water samples that were collected on 9/7/2004 for HCO₃ since the hold time of 48 hrs. has expired.

Also, for the COC for the site F-35 SWD, the corresponding samples were mistakenly labeled as H-35 SWD.

Thank you.
Kristin Farris Pope
RICE Operating Company
Hobbs, NM 88240
(505) 393-9174

--

This message has been scanned for viruses and dangerous content by MailScanner at BasinBroadBand.com, and is believed to be clean.

9/10/04

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

Client: Rice Operating Co.
 Date/Time: 09-10-04 @ 0900
 Order #: 4I10010
 Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	4.0 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	CO ₂ /HCO ₃ out of 48 hr. hold time
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Not Applicable

Other observations:

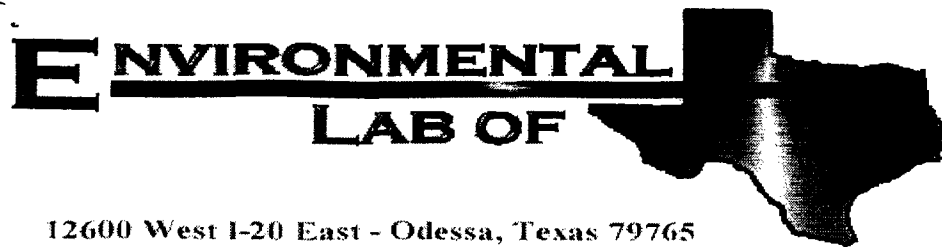
Variance Documentation:

Contact Person: - Kristin Farris Date/Time: 09-10-04 @ 0930 Contacted by: Jeanne
 Regarding:

hold time - CO₂/HCO₃

Corrective Action Taken:

client doesn't want to run CO₂/HCO₃
on 9/7/4 samples. See attached e-mail



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: K-6
Project Number: None Given
Location: EME

Lab Order Number: 4E29002

Report Date: 06/04/04

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well 1	4E29002-01	Water	05/27/04 10:00	05/28/04 16:30

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

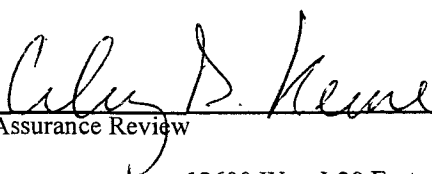
Reported:
06/07/04 15:46

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well 1 (4E29002-01) Water									
Benzene	0.00137	0.00100	mg/L	1	EF40313	06/02/04	06/02/04	EPA 8021B	
Toluene	J [0.000377]	0.00100	"	"	"	"	"	"	J
Ethylbenzene	J [0.000601]	0.00100	"	"	"	"	"	"	J
Xylene (p/m)	J [0.000383]	0.00100	"	"	"	"	"	"	J
Xylene (o)	J [0.000333]	0.00100	"	"	"	"	"	"	J
<i>Surrogate: a,a,a-Trifluorotoluene</i>		83.0 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		84.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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.


Quality Assurance Review

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

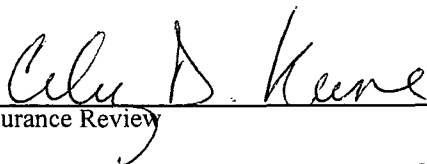
Reported:
06/04/04 16:49

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 (4E29002-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EF40408	05/29/04	05/29/04	EPA 310.2M	
Bicarbonate Alkalinity	490	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	13800	5.00	"	"	EF40407	06/03/04	06/03/04	EPA 325.3M	
Total Dissolved Solids	25700	5.00	"	"	EF40310	06/01/04	06/02/04	EPA 160.1	
Sulfate	6020	125	"	250	EF40418	06/04/04	06/04/04	EPA 375.4	

Environmental Lab of Texas

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Cely D. Keene

Quality Assurance Review

Page 3 of 10

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

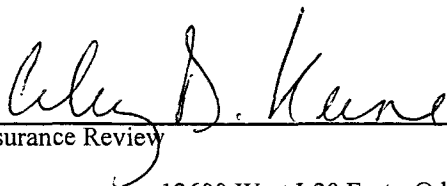
Reported:
06/04/04 16:49

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well 1 (4E29002-01) Water									
Calcium	956	1.00	mg/L	100	EF40416	06/02/04	06/02/04	EPA 6010B	
Magnesium	385	0.100	"	"	"	"	"	"	
Potassium	63.3	0.500	"	10	"	"	06/02/04	"	
Sodium	7900	10.0	"	1000	"	"	06/02/04	"	

Environmental Lab of Texas

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Quality Assurance Review

Page 4 of 10

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:49

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 EF40313 - EPA 5030C (GC)

Blank (EF40313-BLK1)

Prepared & Analyzed: 06/02/04

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	22.6		ug/l	20.0		113	80-120			
Surrogate: 4-Bromofluorobenzene	18.7		"	20.0		93.5	80-120			

LCS (EF40313-BS1)

Prepared & Analyzed: 06/02/04

Benzene	87.9		ug/l	100		87.9	80-120			
Toluene	94.6		"	100		94.6	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	94.9		"	100		94.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.2		"	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	22.0		"	20.0		110	80-120			

Calibration Check (EF40313-CCV1)

Prepared & Analyzed: 06/02/04

Benzene	83.3		ug/l	100		83.3	80-120			
Toluene	92.4		"	100		92.4	80-120			
Ethylbenzene	92.3		"	100		92.3	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	92.0		"	100		92.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.6		"	20.0		88.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.7		"	20.0		104	80-120			

Matrix Spike (EF40313-MS1)

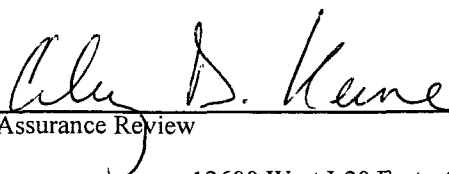
Source: 4E29001-01

Prepared & Analyzed: 06/02/04

Benzene	92.3		ug/l	100	ND	92.3	80-120			
Toluene	103		"	100	ND	103	80-120			
Ethylbenzene	99.5		"	100	ND	99.5	80-120			
Xylene (p/m)	214		"	200	ND	107	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.2		"	20.0		111	80-120			
Surrogate: 4-Bromofluorobenzene	23.0		"	20.0		115	80-120			

Environmental Lab of Texas

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Quality Assurance Review

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:49

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 EF40313 - EPA 5030C (GC)

Matrix Spike Dup (EF40313-MSD1)

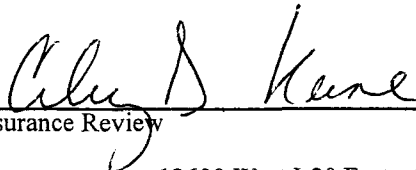
Source: 4E29001-01

Prepared & Analyzed: 06/02/04

Benzene	83.2		ug/l	100	ND	83.2	80-120	10.4	20	
Toluene	92.2		"	100	ND	92.2	80-120	11.1	20	
Ethylbenzene	89.4		"	100	ND	89.4	80-120	10.7	20	
Xylene (p/m)	192		"	200	ND	96.0	80-120	10.8	20	
Xylene (o)	92.6		"	100	ND	92.6	80-120	9.66	20	
Surrogate: a,a,a-Trifluorotoluene	20.5		"	20.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	22.8		"	20.0		114	80-120			

Environmental Lab of Texas

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Quality Assurance Review

Page 6 of 10

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:49

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 EF40310 - Filtration Preparation

Blank (EF40310-BLK1)

Prepared: 06/01/04 Analyzed: 06/02/04

Total Dissolved Solids ND 5.00 mg/L

Duplicate (EF40310-DUP1)

Source: 4E29001-01

Prepared: 06/01/04 Analyzed: 06/02/04

Total Dissolved Solids 831 5.00 mg/L 830 0.120 20

Batch EF40407 - General Preparation (WetChem)

Blank (EF40407-BLK1)

Prepared & Analyzed: 06/03/04

Chloride ND 5.00 mg/L

Matrix Spike (EF40407-MS1)

Source: 4E29001-01

Prepared & Analyzed: 06/03/04

Chloride 709 5.00 mg/L 500 213 99.2 80-120

Matrix Spike Dup (EF40407-MSD1)

Source: 4E29001-01

Prepared & Analyzed: 06/03/04

Chloride 700 5.00 mg/L 500 213 97.4 80-120 1.28 20

Reference (EF40407-SRM1)

Prepared & Analyzed: 06/03/04

Chloride 4960 mg/L 5000 99.2 80-120

Batch EF40408 - General Preparation (WetChem)

Blank (EF40408-BLK1)

Prepared & Analyzed: 05/29/04

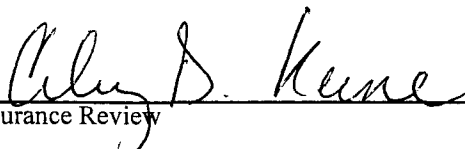
Carbonate Alkalinity ND 0.100 mg/L

Bicarbonate Alkalinity ND 2.00 "

Hydroxide Alkalinity ND 0.100 "

Environmental Lab of Texas

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Quality Assurance Review

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:49

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 EF40408 - General Preparation (WetChem)

Duplicate (EF40408-DUP1)

Source: 4E29001-01

Prepared & Analyzed: 05/29/04

Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	214	2.00	"		214			0.00	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	

Reference (EF40408-SRM1)

Prepared & Analyzed: 05/29/04

Carbonate Alkalinity	0.0496		mg/L	0.0500		99.2	80-120			
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Batch EF40418 - General Preparation (WetChem)

Blank (EF40418-BLK1)

Prepared & Analyzed: 06/04/04

Sulfate	ND	0.500	mg/L							
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Calibration Check (EF40418-CCV1)

Prepared & Analyzed: 06/04/04

Sulfate	49.2		mg/L	50.0		98.4	80-120			
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Duplicate (EF40418-DUP1)

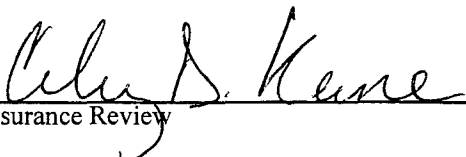
Source: 4E29001-01

Prepared & Analyzed: 06/04/04

Sulfate	140	1.00	mg/L		138			1.44	20	
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Environmental Lab of Texas

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Quality Assurance Review

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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/07/04 15:46

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 EF40416 - General Preparation (Metals)

Blank (EF40416-BLK1)

Prepared & Analyzed: 06/02/04

Calcium	ND	0.0100	mg/L
Magnesium	ND	0.00100	"
Potassium	ND	0.0500	"
Sodium	ND	0.0100	"

Calibration Check (EF40416-CCV1)

Prepared & Analyzed: 06/02/04

Calcium	2.08		mg/L	2.00		104	85-115
Magnesium	2.29		"	2.00		114	85-115
Potassium	1.97		"	2.00		98.5	85-115
Sodium	1.93		"	2.00		96.5	85-115

Duplicate (EF40416-DUP1)

Source: 4E29001-01

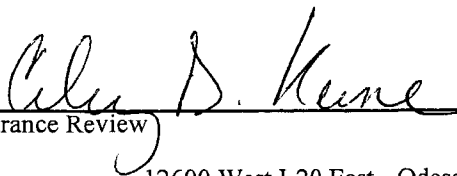
Prepared & Analyzed: 06/02/04

Calcium	165	1.00	mg/L	170		2.99	20
Magnesium	29.9	0.0100	"	29.3		2.03	20
Potassium	4.76	0.0500	"	4.82		1.25	20
Sodium	96.5	0.100	"	96.8		0.310	20

Environmental Lab of Texas

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Quality Assurance Review



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

Project: K-6
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

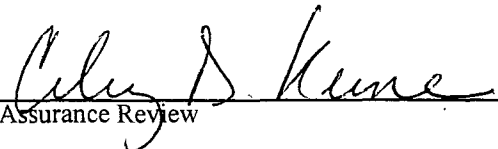
Reported:
06/04/04 16:49

Notes and Definitions

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

Environmental Lab of Texas

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Quality Assurance Review

Page 10 of 10

12600 West 1-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris
Company Name: RICE Operating
Company Address: 122 W. Taylor
City/State/Zip: 44102 NM 88240

Project Name: R-6
Project #: _____
Project Loc: EME
PO #: 510

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

Sampler Signature: David Lee

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 05-29-04 @ 1030

Order #: 4E29002

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	6.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	missing 1 st rec.
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	Yes	No	should be 4°C ± 2°C
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

signature

Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 02/18/04
Reporting Date: 02/20/04
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: EME K-6

Sampling Date: 02/18/04
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

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)
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ANALYSIS DATE:	02/19/04	02/19/04	02/19/04	02/19/04	02/19/04	02/19/04
H8468-1 EME K-6 MW 1	7171	886	300	66.8	39094	528
Quality Control	NR	59	42	5.17	1322	NR
True Value QC	NR	50	50	5.00	1413	NR
% Recovery	NR	118	85	103	93.6	NR
Relative Percent Difference	NR	1.7	2.3	1.0	0.7	NR

METHODS:	SM3500-Ca-D3500-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:	02/19/04	02/19/04	02/19/04	02/19/04	02/19/04	02/20/04
H8468-1 EME K-6 MW 1	11796	1903	0	644	7.01	26172
Quality Control	1010	53.65	NR	1007	7.04	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	101	107	NR	101	101	NR
Relative Percent Difference	2.0	1.5	NR	1.1	0.3	1.4

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
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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. Cardinal shall be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



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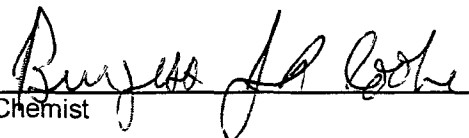
ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 02/18/04
Reporting Date: 02/20/04
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: EME K-6

Sampling Date: 02/18/04
Sample Type: GROUNDWATER
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		02/18/04	02/18/04	02/18/04	02/18/04
H8468-1	EME K-6 MW 1	0.003	<0.002	<0.002	<0.006
Quality Control		0.094	0.096	0.099	0.304
True Value QC		0.100	0.100	0.100	0.300
% Recovery		94.1	96.0	99.0	101
Relative Percent Difference		1.9	5.1	2.5	0.4

METHOD: EPA SW-846 8260


Chemist

2/20/04
Date

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CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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