

AP - 44

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 1671

January 14, 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
H-13 LEAK SITE, EME SWD SYSTEM
UNIT 'H', SEC. 13, T20S, R36E
NMOCD CASE #1R0429**

Mr. Price:


Rice Operating Company (ROC) takes this opportunity to submit the 2004 Monitor Well Report for the EME H-13 leak 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 leak. This well is sampled quarterly pursuant to NMOCD guidelines. In 2004, ROC and Basin Environmental Service Technologies of Lovington sampled the well. In 2005, Highlander Environmental Corp. (Highlander) of Midland, Texas will sample the well and Environmental Lab of Texas of Odessa will continue to conduct analytical tests of the water samples.

Highlander 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
 Survey map

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

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

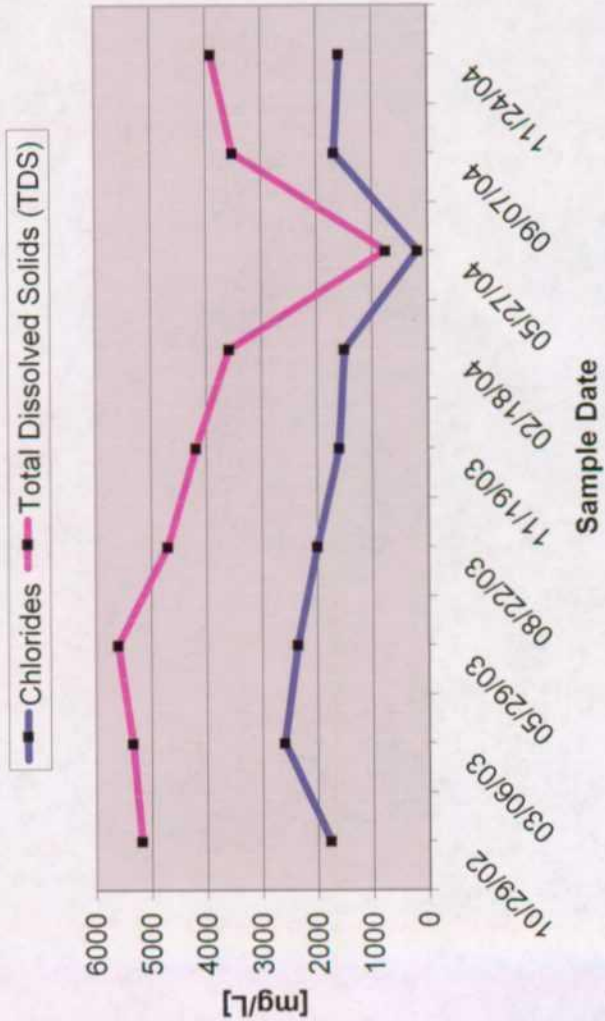
EME H-13 leak

unit 'H', Sec. 13, T20S, R36E

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	33.19	43.94	1.720	5.25	10/29/02	1770	5180	<0.001	<0.001	<0.001	<0.001	
1	33.18	43.90	1.710	5.10	03/06/03	2600	5340	<0.001	<0.001	<0.001	<0.001	
1	33.20	43.91	1.212	5.10	05/29/03	2360	5600	<0.001	<0.001	<0.001	<0.001	
1	33.40	43.90	1.680	5.04	08/22/03	2000	4700	<0.001	<0.001	<0.001	<0.001	
1	33.35	43.91	1.600	5.00	11/19/03	1600	4180	<0.001	<0.001	<0.001	0.001	
1	33.41	43.90	1.670	5.00	02/18/04	1500	3580	<0.002	<0.002	<0.002	<0.006	
1	33.56	43.90	1.650	5.00	05/27/04	177	751	<0.001	<0.001	<0.001	<0.001	
1	33.40	44.10	1.712	5.14	09/07/04	1680	3510	<0.001	<0.001	<0.001	<0.001	
1	32.85	44.10	1.800	5.40	11/24/04	1590	3900	<0.001	<0.001	<0.001	<0.001	

EME H-13 leak Monitor Well



* Depth to water measured from top of casing
Casing is 2.438 ft



ARDINAL LABORATORIES

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

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

ANALYTICAL RESULTS FOR
RICE OPERATING 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 H-13

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 (uS/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
H8469-1 EME H-13 MW 1	543	293	123	2.60	5897	264
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-D 3500-Mg E	8049	120.1	310.1
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	Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
ANALYSIS DATE:	02/19/04	02/19/04	02/19/04	02/19/04	02/19/04	02/20/04
H8469-1 EME H-13 MW 1	1500	44	0	322	7.33	3580
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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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 H-13

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

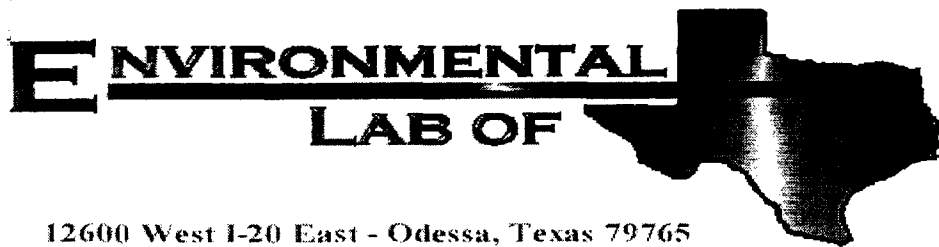
LAB NUMBER	SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE		02/18/04	02/18/04	02/18/04	02/18/04
H8469-1	EME H-13 MW 1	<0.002	<0.002	<0.002	<0.006
Quality Control		0.094	0.096	0.099	0.304
True Value QC		0.100	0.100	0.100	0.300
% Recovery		94.1	96.0	99.0	101
Relative Percent Difference		1.9	5.1	2.5	0.4

METHOD: EPA SW-846 8260

Chemist

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.



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: H-13 Leak
Project Number: None Given
Location: EME

Lab Order Number: 4E29003

Report Date: 06/04/04

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

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:50

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well 1	4E29003-01	Water	05/27/04 10:35	05/28/04 16:30

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

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

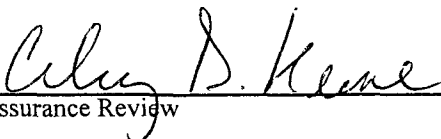
Reported:
06/04/04 16:50

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well 1 (4E29003-01) Water									
Benzene	ND	0.00100	mg/L	1	EF40313	06/02/04	06/02/04	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		118 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Quality Assurance Review

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

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

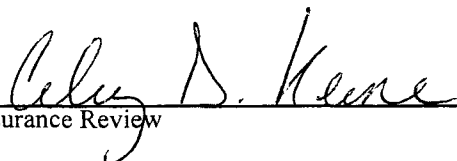
Reported:
06/04/04 16:50

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 (4E29003-01) Water									
Carbonate Alkalinity	ND	0.100	mg/L	1	EF40408	05/29/04	05/29/04	EPA 310.2M	
Bicarbonate Alkalinity	191	2.00	"	"	"	"	"	"	
Hydroxide Alkalinity	ND	0.100	"	"	"	"	"	"	
Chloride	177	5.00	"	"	EF40407	06/03/04	06/03/04	EPA 325.3M	
Total Dissolved Solids	751	5.00	"	"	EF40310	06/01/04	06/02/04	EPA 160.1	
Sulfate	90.8	1.00	"	2	EF40418	06/04/04	06/04/04	EPA 375.4	

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122 W. Taylor
Hobbs NM, 88240

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

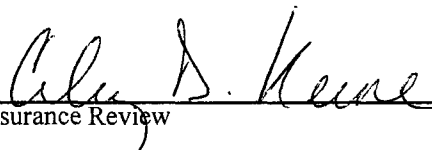
Reported:
06/04/04 16:50

Total Metals by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well 1 (4E29003-01) Water									
Calcium	79.2	0.100	mg/L	10	EF40416	06/02/04	06/02/04	EPA 6010B	
Magnesium	37.4	0.0100	"	"	"	"	"	"	
Potassium	8.97	0.0500	"	1	"	"	06/02/04	"	
Sodium	202	1.00	"	100	"	"	06/02/04	"	

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

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:50

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

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

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:50

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

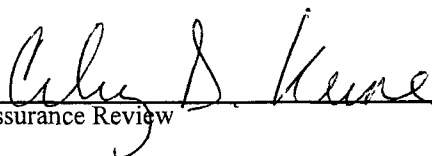
Prepared & Analyzed: 06/02/04

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			

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Quality Assurance Review



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

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

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:50

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

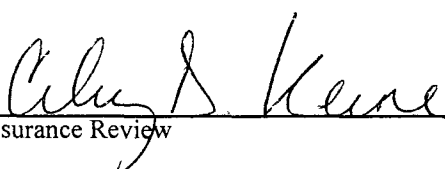
Carbonate Alkalinity ND 0.100 mg/L

Bicarbonate Alkalinity ND 2.00 "

Hydroxide Alkalinity ND 0.100 "

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

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/04/04 16:50

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			

Batch EF40418 - General Preparation (WetChem)

Blank (EF40418-BLK1)		Prepared & Analyzed: 06/04/04								
Sulfate	ND	0.500	mg/L							

Calibration Check (EF40418-CCV1)

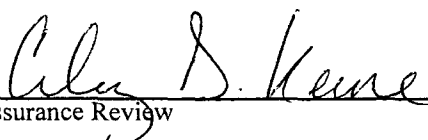
		Prepared & Analyzed: 06/04/04								
Sulfate	49.2		mg/L	50.0		98.4	80-120			

Duplicate (EF40418-DUP1)

		Source: 4E29001-01		Prepared & Analyzed: 06/04/04						
Sulfate	140	1.00	mg/L		138			1.44	20	

Environmental Lab of Texas

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Quality Assurance Review

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

Project: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471

Reported:
06/07/04 15:47

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: H-13 Leak
Project Number: None Given
Project Manager: Kristin Farris

Fax: (505) 397-1471


Reported:
06/04/04 16:50

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

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

12600 West I-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

LABORATORY OF LEADS, INC.

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Kristin Farris

Company Name

RICE Operating

Company Address:

122 W. Taylor

City/State/Zip:

Hobbs, NM 88240

Telephone No:

(505) 393-9174

Sampler Signature:

Dan Farris

Fax No:

(505) 397-1471

Project Name:

H-13 leak

Project #:

Project Loc:

EMC

PO #:

510

LAB # (lab use only)		FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative			Matrix			Analyze For:																	
						Ice	HNO ₃	HCl 40 mL glass	NaOH	H ₂ SO ₄	None L HDPE	Other (Specify)	Water	Silage	Soil	Other (Specify)	ICIP	TOTAL	Metals: As Ag Ba Cd Cr Pb Hg Se Volatiles Semimetals BTEX 80219/5030										
monitored well 1		1	5/27/04	10:35	1	X		X			X	None L HDPE	X						X	RUSH TAT (Pre-Schedule)									
monitored well 1		1	5/27/04	10:35	2	X		X					X							Standard TAT									

Special Instructions: E-mail to Enviro@leeco.net

Relinquished by: Dan Farris Date: 5/28 Time: 3:00

Relinquished to: Cy Wagner Date: 5/28 Time: 4:50

Received by: RECEIVED Date: 5/28/04 Time: 10:00

Sample Containers: 1

Temperature Upon Receipt: b.s.c

Laboratory Comments:

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 05-29-04 @ 1030

Order #: 4E29003

Initials: JMM

Sample Receipt Checklist

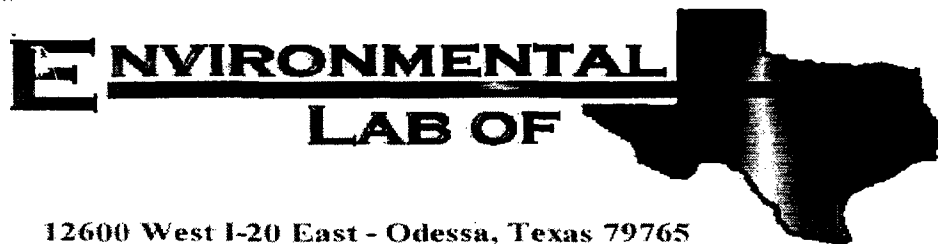
Temperature of container/cooler?	<u>(Yes)</u>	No	<u>G.S.</u>	C
Shipping container/cooler in good condition?	<u>(Yes)</u>	No		
Custody Seals intact on shipping container/cooler?	Yes	No	<u>(Not present)</u>	
Custody Seals intact on sample bottles?	Yes	No	<u>(Not present)</u>	
Chain of custody present?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

Other observations:

Variance Documentation:

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

Corrective Action Taken:



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: H-13 Leak
Project Number: None Given
Location: EME

Lab Order Number: 4I10011

Report Date: 09/17/04

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

Project: H-13 Leak
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-I	4I10011-01	Water	09/07/04 14:30	09/09/04 19:20

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

Project: H-13 Leak
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 (4H10011-01) Water									
Benzene	ND	0.00100	mg/L	1	EI41604	09/14/04	09/14/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		118 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-120		"	"	"	"	

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

Project: H-13 Leak
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 (4I10011-01) Water									
Chloride	1680	5.00	mg/L	1	EI41612	09/12/04	09/12/04	EPA 325.3M	
Total Dissolved Solids	3510	10.0	"	2	EI41702	09/13/04	09/13/04	EPA 160.1	
Sulfate	418	5.00	"	10	EI41701	09/10/04	09/10/04	EPA 375.4	

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

Project: H-13 Leak
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 (4110011-01) Water									
Calcium	304	1.00	mg/L	100	EI41506	09/15/04	09/15/04	EPA 6010B	
Magnesium	140	0.100	"	"	"	"	"	"	
Potassium	13.2	0.500	"	10	"	"	"	"	
Sodium	559	1.00	"	100	"	"	"	"	

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

Project: H-13 Leak
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: H-13 Leak
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: 4I10005-02

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: a,a,a-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: H-13 Leak
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
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: H-13 Leak
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: H-13 Leak
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 Limits	RPD	RPD Limit	Notes
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: H-13 Leak
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: H-13 Leak
Project Number: None Given
Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported:
09/17/04 10:54

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:

9-18-04

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.

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 #: 4 I 10 0011

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 ₃ /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:

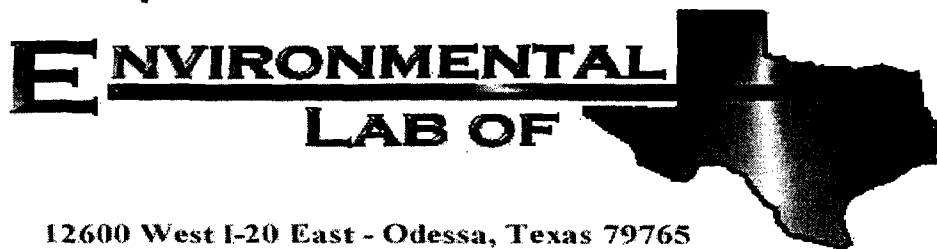
Variance Documentation:

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

hold time - CO₃/HCO₃

Corrective Action Taken:

client doesn't want to run CO₃/HCO₃
on 9/7/4 samples. See attached e-mail



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: H-13 Leak
Project Number: None Given
Location: EME

Lab Order Number: 4K30008

Report Date: 12/09/04

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

Project: H-13 Leak
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	4K30008-01	Water	11/24/04 14:04	11/30/04 10:35

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

Project: H-13 Leak
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 (4K30008-01) Water									
Benzene	ND	0.00100	mg/L	1	EL40601	12/02/04	12/02/04	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		112 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	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.

Page 2 of 12

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

Project: H-13 Leak
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 (4K30008-01) Water									
Total Alkalinity	220	2.00	mg/L	1	EL40313	12/03/04	12/03/04	EPA 310.2M	
Total Dissolved Solids	3900	5.00	"	"	EL40105	11/30/04	12/01/04	EPA 160.1	

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.

Page 3 of 12

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

Project: H-13 Leak
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 (4K30008-01) Water									
Calcium	348	1.00	mg/L	100	EL40101	11/30/04	11/30/04	EPA 6010B	
Magnesium	164	0.100	"	"	"	"	"	"	
Potassium	21.2	0.500	"	10	"	"	"	"	
Sodium	693	1.00	"	100	"	"	"	"	

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

Project: H-13 Leak
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 (4K30008-01) Water									
Chloride	1590	25.0	mg/L	50	EL40916	12/08/04	12/08/04	EPA 300.0	
Sulfate	358	25.0	"	"	"	"	"	"	

Rice Operating Co.
122 W. Taylor
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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			

Environmental Lab of Texas

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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			

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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.
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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

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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		

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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	

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12/09/04 15:40

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: 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.

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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

Sampler Signature: Jake Nune

Fax No: (505) 397-1471

Project Name: H-13 leak

Project #:

Project Loc: EME

PO #: 510

[illegible]

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Rice Operating Co.

Date/Time: 11-30-04 @ 1200

Order #: 4K 30008

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="checkbox"/> Yes	No	O.S.	C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No		
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	No	<u>Not present</u>	
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	No	<u>Not present</u>	
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?	<input checked="" type="checkbox"/> Yes	No		
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?	<input checked="" type="checkbox"/> Yes	No		
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	

Other observations:

Variance Documentation:

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

Corrective Action Taken:
