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

Kristin Farris Pope

Kristin Farris Pope

Project Scientist

enclosures:

Summary table & graph

Analytical results Survey map

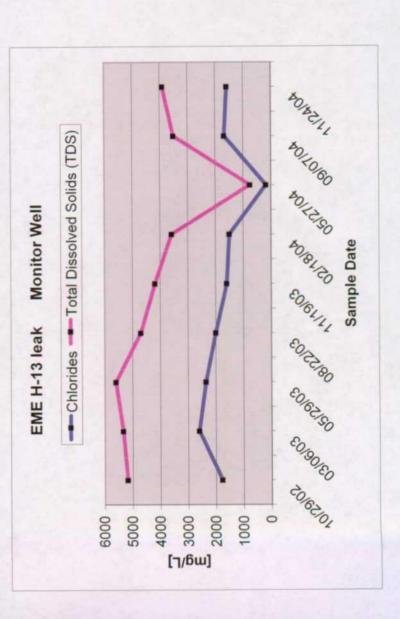
cc: LBG, CDH, Highlander, file, Rob Roy Industries,

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

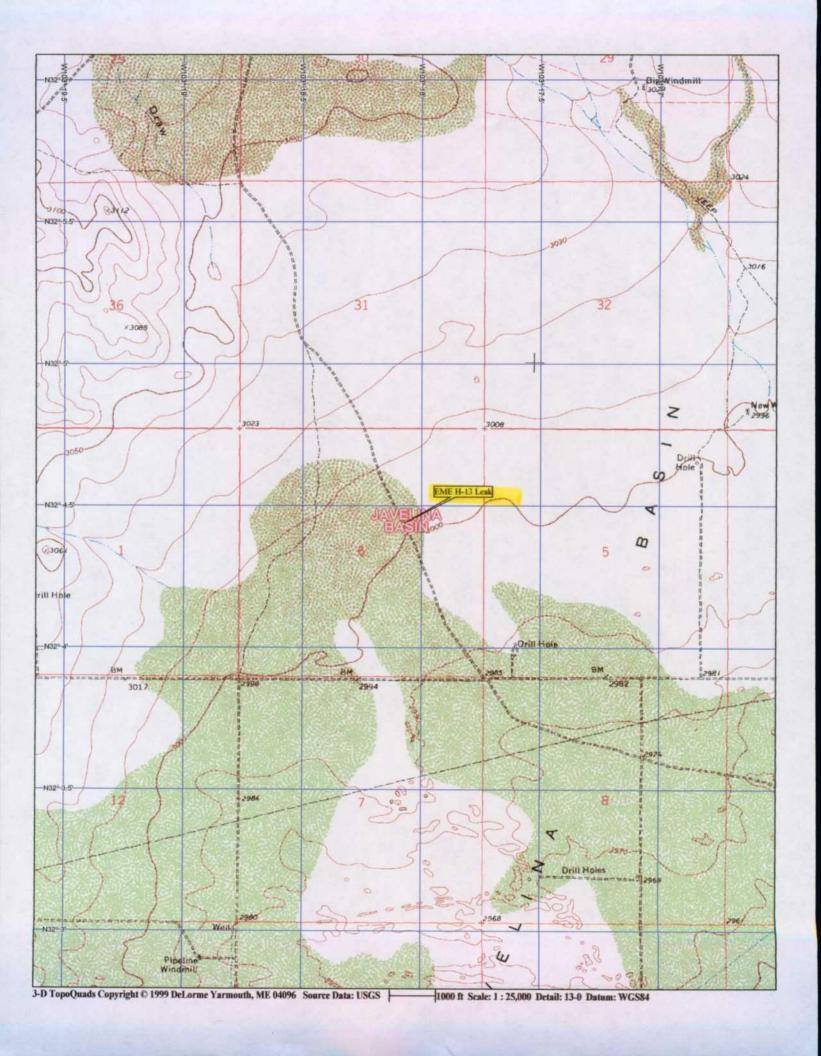
EME H-13 leak

R36E
T20S,
13,
Sec.
H,
unit

	COMMENTS									
	ETHYL TOTAL	<0.001	<0.001	<0.001	<0.001	0.001	<0.006	<0.001	<0.001	<0.001
mg/L	Justin	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
ations are in	BENZENE TOLUENE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
All concentrations are in mg/L	BENZENE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001
1	TDS	5180	5340	2600	4700	4180	3580	751	3510	3900
	CI	1770	2600	2360	2000	1600	1500	177	1680	1590
	SAMPLE	10/29/02	03/06/03	05/29/03	08/22/03	11/19/03	02/18/04	05/27/04	09/07/04	11/24/04
1)	VOLUME	5.25	5.10	5.10	5.04	5.00	5.00	5.00	5.14	5.40
(gal)	WELL	1.720	1.710	1.212	1.680	1.600	1.670	1.650	1.712	1.800
(t)	TOTAL	43.94	43.90	43.91	43.90	43.91	43.90	43.90	44.10	44.10
(ft)	DEPTH TO	33.19	33.18	33.20	33.40	33.35	33.41	33.56	33.40	32.85
	# MW	-	-	-	-	-	-	-	-	1



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





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

		Na	Са	Mg	ĸ	Conductivity	T-Alkalinity
LAB NUMBER	SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(uS/cm)	(mgCaCO ₃ /L)
ANALYSIS DA	TE:	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		NR
% Recovery		NR	118	85	103	93.6	NR
Relative Percer	nt Difference	NR	1.7	2.3	1.0	0.7	NR
METHODS:		SM3	3500-Ca-D	3500-Mg E	8049	120.1	310.1
		CI ⁻	SO₄	CO ₃	HCO ₃	pН	TDS
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(mg/L)
ANALYSIS DA	TE:	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 Perce	nt Difference	2.0	1.5	NR	1.1	0.3	1.4
METHODS:		SM4500-CI-B	375.4	310.1	310.1	150.1	160.1
Imy	Hill			-	26	004	<i>L</i>
Chemist					Date ¹	V	

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





PHONE (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 Location: EME H-13

Project Number: NOT GIVEN Project Name: NOT GIVEN

Sampling Date: 02/18/04

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

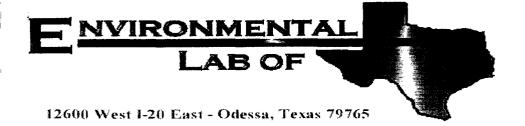
LAB NUMBER SAMPLE ID	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL BENZENE (mg/L)	TOTAL XYLENES (mg/L)
ANALYSIS DATE	02/18/04	02/18/04	02/18/04	02/18/04
H8469-1 EME H-13 MW 1	<0.002	<0.002	<0.002	<0.006
	1	1	1	

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDII	_	11				CHARLES CHARLES OF STREET	
(915)	(915) 673-7001 Fax (915) 673-7020 (505) 393-2326	101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476				Page	
Company Name: 🎅					ے	S]	
Project Manager:	Vistin Faccis			\exists		- 1	
Address: /22 M/.	Taple	Сотряпу:					والماليون
CITY: HODES	1	Attn:					-
Phone # (505) 3	393-9/74 Fax #: (505)397-1471	Address:					
•	Project Owner:	City:					
Project Name:		State: Zip:					
Project Location:	MF H-13	**					
Sampler Name: K	Farris	Fax #:					
FOR LAB LIBE CHLY	MATRIX	PRESERV SAMPLING					
Lab I.D.	Sample I.D. RAB OR (C)OMP ONTAINERS DUNDWATER STEWATER L JDE OIL	IDGE HER: D/BASE: / COOL HER:	ations	nions nions	Tex		
115/11/2/1		A 100	×	ı			
×	EME H-13 MW 121	2/18/100	1 !		X		
			Tip gage				
		The state of the s	And the same of th		<u> </u>	especial and designation of the control of the cont	-
PLEASE HOTE: Usbay and Damages. snalpses All claims including those for m	PERSENTE: USBN and Demons. Cardware highly and don't existent remoty for any datin arting window based in commend or test, and be finded to be account public the find don't be the property of the comment of test, and the property of the comment of the systemate transfer of the	t or tool, simel be furthed to the ecount peek by the of his colonial by Cardinal wideh 30 days with a coupleds	abord for the as of the oppolication			Tarren and Conditions: latered will be clamped on all secretar move han 30 days part dae at the rate of 21% per mount from the original data of kweice	3 5
sandos In no evert shell Cardraid be tel	ble for bruklerbel or core-e-portal charages, brakalag wildout britishes, busheses bisoriquitors. Island to the porformation of benylose havenurder by Cardhal, Jagardhese of whether buch chief	oas of use, or lose of profits incurred by client, his au high besied upon any of the above stated resears at	arbakilaries, er ollusudus.			and all costs of collections, including attempty's fees.	
Sampler Relinquished:	Sampler Relinquished: Date: Received By:		Phone Result:	_ Υ ₀ ,	O No	Add'l Phone #:	
Relinquished By:	Dajik Received By: (Lab Staff)	~ 0	REMARKS:		{		
	My Holethin	A CO					
Delivered By: (Circ	(Circle One) Sample/Co	Condition CHECKED BY:					
Sampler - UPS - Bus - Other:	No.	o 3				-	



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

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									<u></u>
Benzene	ND	0.00100	mg/L	1	EF40313	06/02/04	06/02/04	EPA 8021B	
Toluene	ND	0.00100	ti .	**	**	n	**	u	
Ethylbenzene	ND	0.00100	n	H	**	II	**	41	
Xylene (p/m)	ND	0.00100	11	"	и	н	11	н	
Xylene (o)	ND	0.00100	H	U	*1	11	**	TI.	
Surrogate: a,a,a-Trifluorotoluene		. 118%	80-12	20	,,	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.5 %	80-12	20	"	"	"~	"	

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

Page 2 of 10

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	n	**	**	*	41	ti	
Hydroxide Alkalinity	ND	0.100	17	11	ti	ti	*1	tı	
Chloride	177	5.00	11	**	EF40407	06/03/04	06/03/04	EPA 325.3M	
Total Dissolved Solids	751	5.00	n	"	EF40310	06/01/04	06/02/04	EPA 160.1	
Sulfate	90.8	1.00	n	2	EF40418	06/04/04	06/04/04	EPA 375.4	

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Quality Assurance Review

Page 3 of 10

Project: H-13 Leak Project Number: None Given

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	n	"	11	н	"	11	
Potassium	8.97	0.0500	n	1	**	u	06/02/04	"	
Sodium	202	1.00	w	100	11	•	06/02/04	tt	

Environmental Lab of Texas

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Quality Assurance Review

Page 4 of 10

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
Batch EF40313 - EPA 5030C (GC)										
Blank (EF40313-BLK1)				Prepared	& Analyzo	d: 06/02/	04			
Benzene	ND	0.00100	mg/L			~				
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	н							
Xylene (p/m)	ND	0.00100	11							
Xylene (o)	ND	0.00100	п							
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	& Analyzo	ed: 06/02/	04			
Benzene	87.9		ug/l	100		87.9	80-120			
Toluene	94.6		11	100		94.6	80-120			
Ethylbenzene	91.2		"	100		91.2	80-120			
Xylene (p/m)	196		11	200		98.0	80-120			
Xylene (o)	94.9		11	100		94.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.2		7/	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	22.0		" .	20.0		110	80-120			
Calibration Check (EF40313-CCV1)				Prepared	& Analyze	ed: 06/02/	04			
Benzene	83.3		ug/l	100	* *****	83.3	80-120			
Toluene	92.4		19	100		92.4	80-120			
Ethylbenzene	92.3		31	100		92.3	80-120			
Xylene (p/m)	196		tt	200		98.0	80-120			
Xylene (o)	92.0		n	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)		urce: 4E2900	1-01	Prepared	& Analyze	ed: 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		11	200	ND	107	80-120			
Xylene (o)	102		11	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

Page 5 of 10

Project: H-13 Leak Project Number: None Given

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF40313 - EPA 5030C (GC)							_			
Matrix Spike Dup (EF40313-MSD1)	Sou	rce: 4E29001	-01	Prepared	& Analyze	ed: 06/02/0	04			_
Benzene	83.2		ug/l	100	ND	83.2	80-120	10.4	20	
Toluene	92.2		u	100	ND	92.2	80-120	11.1	20	
Ethylbenzene	89.4		u	100	ND	89.4	80-120	10.7	20	
Xylene (p/m)	192		н	200	ND	96.0	80-120	10.8	20	
Xylene (o)	92.6		II	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

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF40310 - Filtration Preparati	ion									
Blank (EF40310-BLK1)	<u></u>			Prepared:	06/01/04	Analyzed	l: 06/02/04			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EF40310-DUP1)	Sour	ce: 4E2900	01-01	Prepared:	06/01/04	Analyzed	1: 06/02/04			
Total Dissolved Solids	831	5.00	mg/L		830			0.120	20	
Batch EF40407 - General Preparatio	n (WetChem)									
Blank (EF40407-BLK1)				Prepared	& Analyze	ed: 06/03/	04	-		
Chloride	ND	5.00	mg/L	(A 11)						
Matrix Spike (EF40407-MS1)	Sour	ce: 4E2900	1-01	Prepared	& Analyzo					
Chloride	709	5.00	mg/L	500	213	99.2	80-120			
Matrix Spike Dup (EF40407-MSD1)	Sour	ce: 4E2900)1-01	Prepared	& Analyz	ed: 06/03/	04			
Chloride	700	5.00	mg/L	500	213	97.4	80-120	1.28	20	
Reference (EF40407-SRM1)				Prepared	& Analyz	ed: 06/03/	04			
Chloride	4960	·	mg/L	5000		99.2	80-120			
Batch EF40408 - General Preparatio	n (WetChem)									
Blank (EF40408-BLK1)				Prepared	& Analyze	ed: 05/29/	04			
Zimilit (Eli 10100 DELLI)										
Carbonate Alkalinity	ND	0.100	mg/L							
	ND ND	0.100 2.00	mg/L							

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Quality Assurance Review

Page 7 of 10

Rice Operating Co.

122 W. Taylor Hobbs NM, 88240 Project: H-13 Leak

Fax: (505) 397-1471

Project Number: None Given

Project Manager: Kristin Farris

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
Batch EF40408 - General Preparatio	n (WetChen	n)								
Duplicate (EF40408-DUP1)	So	urce: 4E2900)1-01	Prepared	& Analyz	ed: 05/29/	04			
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	214	2.00	H		214			0.00	20	
Hydroxide Alkalinity	0.00	0.100	11		0.00				20	
Reference (EF40408-SRM1)				Prepared	& Analyz	ed: 05/29/	04			
Carbonate Alkalinity	0.0496		mg/L	0.0500	2 15213	99.2	80-120			
Batch EF40418 - General Preparation	n (WetChen	n)								
Blank (EF40418-BLK1)				Prepared	& Analyz	ed: 06/04/	04		-	
Sulfate	ND	0.500	mg/L							
Calibration Check (EF40418-CCV1)				Prepared	& Analyz	ed: 06/04/	04			
Sulfate	49.2		mg/L	50.0		98.4	80-120			
Duplicate (EF40418-DUP1)	So	urce: 4E290(01-01	Prepared	& Analyz	ed: 06/04/	04			
Sulfate	140	1.00	mg/L		138			1.44	20	

Environmental Lab of Texas

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Quality Assurance Review

Page 8 of 10

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
Batch EF40416 - General Preparatio	n (Metals)							***		_
Blank (EF40416-BLK1)				Prepared	& Analyz	ed: 06/02/	04			
Calcium	ND	0.0100	mg/L		~-					
Magnesium	ND	0.00100	tt .							
Potassium	ND	0.0500	**							
Sodium	ND	0.0100	11							
Calibration Check (EF40416-CCV1)				Prepared	& Analyzo	ed: 06/02/	04			
Calcium	2.08		mg/L	2.00		104	85-115	_		
Magnesium .	2.29		u	2.00		114	85-115			
Potassium	1.97		(T	2.00		98.5	85-115			
Sodium	1.93		"	2.00		96.5	85-115			
Duplicate (EF40416-DUP1)	So	ource: 4E2900	1-01	Prepared	& Analyzo	ed: 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

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

Page 9 of 10

Rice Operating Co.

Project: H-13 Leak

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given Project Manager: Kristin Farris

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

Page 10 of 10

CHAIN OF CUSTONY RECORD AND ANALYSIS REQUEST

Project Name: 11 - 13

Project Loc: LML

PO #: .510

Law of tenas, IIIC. 12600 West 1.20 East

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

Odessa, Texas 19763

Kiistin Faccis Project Manager:

Company Address: LAA W. Taylar

City/State/Zip: + Labbs, MM 88240 Telephone No (505) 393-9174

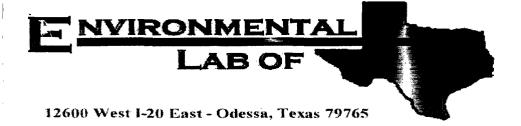
Sampler Signature: (X) (Cara

Fax No: (505)397-147

TAT brabnat2 RUSH TAT (Pre-Schedure) Temperature Upon Réceipt Sample Containers Intact? 0£02/81508 X3T8 4 Metals: As Ag 5a Cd Cr ^Db Hg Se TCI P. ORO/ORO MÈTOS HAT 3001/2001 XT H9T 52Ecm 122 LBIA HGT QDZN CF N 2∀B N EC Matrix ಶ್ರರಂಭ Date Other (Specify) HDDE anoM , OS;H 40mc 41655 ICH HNO a⊐¦ X No. of Containers 10:35 5127/04 10:35 baiqma2 amiT Enviro @ Leoco. Net 1977/04 Received by: beigmas stad MONITER WILL mayine well Special Instructions: E - mail + 0 Relinguished by:

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

Client: Rice Operating Co	2					•
Date/Time: 05-29-04@10	030					
Order #: 4E29003						•
Initials: JMM						
•	Sample Receip	t Checkli	st		_	
Temperature of container/cooler?		(Yes)	No	6.5	С	
Shipping container/cooler in good condition	1?	Yes	No			
Custody Seals intact on shipping container		Yes	No	Not pres	ent	
Custody Seals intact on sample bottles?		Yes	No	Not pres		
Chain of custody present?		Yes	No			
Sample Instructions complete on Chain of	Custody?	Yes	No			
Chain of Custody signed when relinquishe		Yes	No	missing 13	· rei.	Signatur
Chain of custody agrees with sample label		(Yes)	No	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Pigracia C
Container labels legible and intact?	<u> </u>	Yes	No	 -		1
Sample Matrix and properties same as on	chain of custody?	(es)	No	 		1
Samples in proper container/bottle?	onan or odolody.	Yes	No	 		
Samples properly preserved?		Yes	No	should b	e 4°C	+200
Sample bottles intact?		(es)	No	1 6.10014 15	<u></u>	1-00
Preservations documented on Chain of Cu	stady?	Yes	No			
Containers documented on Chain of Custo		Yes	No	 		i
Sufficient sample amount for indicated test		(Yes)	No			
All samples received within sufficient hold		(Yes)	No			
VOC samples have zero headspace?		Yes	No	Not Applic	able	{
Other observations:				····		
						
						
	-		-			
	Mauta a Basa					
	Variance Docui			_		
Contact Person:	Date/Time:			Contacted	lby: _	
Regarding:						
						
Corrective Action Taken:						· · · · · · · · · · · · · · · · · · ·
Corrective Action Taken.						
*						
						



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

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	4110011-01	Water	09/07/04 14:30	09/09/04 19:20

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 (4I10011-01) Water					· · · · · · · ·	***		····	
Benzene	ND	0.00100	mg/L	1	EI41604	09/14/04	09/14/04	EPA 8021B	
Toluene	ND	0.00100	N	п	**	11	11	н	
Ethylbenzene	ND	0.00100	**	н	"	11		16	
Xylene (p/m)	ND	0.00100	Ħ	19	**	**	11	n	
Xylene (o)	ND	0.00100	Ħ	u	"	11	h	н	
Surrogate: a,a,a-Trifluorotoluene		118 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-12	20	"	"	" ~	"	

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	Ħ	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	

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 (4I10011-01) Water									
Calcium	304	1.00	mg/L	100	EI41506	09/15/04	09/15/04	EPA 6010B	
Magnesium	140	0.100	ŧŧ	н	"	11	11	**	
Potassium	13.2	0.500	11	10	"	n	U	Ħ	
Sodium	559	1.00	**	100	11	II	11	"	

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
Batch EI41604 - EPA 5030C (GC)			1.72							
Blank (EI41604-BLK1)				Prepared	& Analyze	ed: 09/14/	04			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	**							
Ethylbenzene	ND	0.00100	11							
Xylene (p/m)	ND	0.00100	**							
Xylene (o)	ND	0.00100	11							
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	& Analyze	ed: 09/14/	04			
Benzene	95.7		ug/l	100		95.7	80-120			
Toluene	110		**	100		110	80-120			
Ethylbenzene	108		u	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		<i>"</i>	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	23.5		"	20.0		118	80-120			
LCS Dup (EI41604-BSD1)				Prepared	& Analyze	ed: 09/14/	04			
Benzene	92.0		ug/l	100		92.0	80-120	3.94	20	
Toluene	104		н	100		104	80-120	5.61	20	
Ethylbenzene	103		11	100		103	80-120	4.74	20	
Xylene (p/m)	215		н	200		108	80-120	5.41	20	
Xylene (o)	99.5		11	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	& Analyz	ed: 09/14/	04			
Benzene	82.8		ug/l	100	···· <u>-</u> - · · ·	82.8	80-120			
Toluene	94.0		Ħ	100		94.0	80-120			
Ethylbenzene	91.4		n	100		91.4	80-120			
Xylene (p/m)	196		er .	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			

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
Batch EI41604 - EPA 5030C (GC)										
Matrix Spike (EI41604-MS1)	Sou	rce: 4I10005	-02	Prepared:	09/14/04	Analyzed	: 09/16/04			
Benzene	81.1	*******	ug/l	100	ND	81.1	80-120			
Toluene	83.7		n	100	ND	83.7	80-120			
Ethylbenzene	81.6		#	100	ND	81.6	80-120			
Xylene (p/m)	174		tt	200	ND	87.0	80-120			
Xylene (o)	80.6		11	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	_		

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 (V	 VetChem)									
Blank (EI41612-BLK1)				Prepared	& Analyze	ed: 09/12/	04				
Chloride	ND	5.00	mg/L								
Matrix Spike (EI41612-MS1)	So	urce: 4I0900	7-03	Prepared	& Analyze	ed: 09/12/	04				
Chloride	1280	5.00	mg/L	500	780	100	90-110				
Matrix Spike Dup (EI41612-MSD1)	So	urce: 4I0900	7-03	Prepared	& Analyze	ed: 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	1)									
Blank (EI41701-BLK1)				Prepared	& Analyze	ed: 09/10/	04				
Sulfate	ND	0.500	mg/L								
Calibration Check (EI41701-CCV1)				Prepared	& Analyze	ed: 09/10/	04				
Sulfate	48.6		mg/L	50.0		97.2	80-120			-	
Duplicate (EI41701-DUP1)	So	urce: 4I1000:	5-01	Prepared	& Analyze	ed: 09/10/	04				
Sulfate	128	1.00	mg/L		129			0.778	20		
Batch EI41702 - Filtration Preparation											
Blank (EI41702-BLK1)				Prepared	& Analyze	ed: 09/13/	04				
Total Dissolved Solids	ND	5.00	mg/L								

Project: H-13 Leak

Fax: (505) 397-1471

Project Number: None Given Project Manager: Kristin Pope

Reported: 09/17/04 10:54

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

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

Batch EI41702 - Filtration Preparation

Duplicate (EI41702-DUP1)	1702-DUP1) Source: 4I10005-02						
Total Dissolved Solids	797	5.00	mg/L	937	16.1	20	

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			
Batch EI41506 - General Preparation	n (Metals)	***************************************			- · · · · ·								
Blank (E141506-BLK1)		Prepared & Analyzed: 09/15/04											
Calcium	ND	0.0100	mg/L			•							
Magnesium	ND	0.00100	n										
Potassium	ND	0.0500	**										
Sodium	ND	0.0100	n										
Blank (EI41506-BLK2)		Prepared & Analyzed: 09/15/04											
Calcium	ND	0.0100	mg/L					_					
Magnesium	ND	0.00100	Ħ										
Potassium	ND	0.0500	11										
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		н	2.00		87.5	85-115						
Sodium	1.79		"	2.00		89.5	85-115						
Calibration Check (EI41506-CCV2)				Prepared	& Analyze	ed: 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)	So	Source: 4103009-01			Prepared & Analyzed: 09/15/04								
Calcium	281	1.00	mg/L		280			0.357	20				
Magnesium	110	0.100	н		111			0.905	20				
Potassium	8.18	0.500	19		8.31			1.58	20				
Sodium	359	1.00	**		365			1.66	20				

Sodium

Project: H-13 Leak

Project Number: None Given Project Manager: Kristin Pope

Reporting

0.100

103

Fax: (505) 397-1471

Reported: 09/17/04 10:54

RPD

20

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

Spike

Source

103

%REC

0.00

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI41506 - General Prepara	ation (Metals)									
Duplicate (EI41506-DUP2)	Sou	rce: 4I1001	5-01	Prepared	& Analyzo	d: 09/15/	04			
Calcium	20.2	0.100	mg/L	20.2				0.00	20	
Magnesium	28.4	0.0100	n		28.6			0.702	20	
Potassium	16.4	0.500	n		16.6			1.21	20	

Project: H-13 Leak Project Number: None Given Fax: (505) 397-1471 Reported: 09/17/04 10:54

Project Manager: Kristin Pope

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Rulandk In

Date:

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.

Environmental Lab of Texas I, Ltd.

12600 West I-20 East Odessa, Texas 79763

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Loc: EME Project Name: Project #: Fax No: (505) 397 - (47 Project Manager: Kristin Farris Popl Company Hanse RICE Operating Civistateizip: Hobbs, NM 88240 Telephone No. (505) 393-9174 Sampler Signature:

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Jeanne McMurrey

From:

"Kristin Farris" <enviro@leaco.net>

To:

"Jeanne McMurrey" <jeanne@elabtexas.com> Friday, September 10, 2004 9:33 AM

Sent:

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.

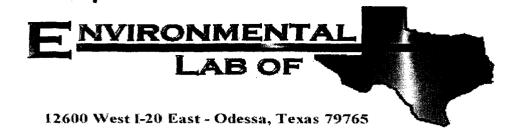
Also, for the COC for the site F-35 SWD, the corresponding samples were mistakenly labeled as H-35 SWD.

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.

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

Client: Rice Operating Co.				
Olient: Rice Operating Co. Date/Time: 09-10-04 @ 0900				
Order #: 4 I 10 0011				
Initials: TMM				
Sample Receipt (Checkli	st		
Temperature of container/cooler?	(Yes)	No	4.0 C	<u>, </u>
Shipping container/cooler in good condition?	(Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present N	
Custody Seals intact on sample bottles?	Yes	No	Not present.	-
Chain of custody present?	Yes.	No	C. Total Brooding T	-
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes,	No		
Chain of custody agrees with sample label(s)	(Yes	No		
Container labels legible and intact?	Ves	No		-
Sample Matrix and properties same as on chain of custody?	(Yes)	No	<u> </u>	\dashv
Samples in proper container/bottle?	(es	No		-
Samples properly preserved?	Yes	No	<u> </u>	-
Sample bottles intact?	Yes	No	<u>'</u>	-
Preservations documented on Chain of Custody?	(Yes	No	<u>' </u>	
Containers documented on Chain of Custody?	(Yes)	No		-
Sufficient sample amount for indicated test?	Yes	No	<u> </u>	-
All samples received within sufficient hold time?	Yes	No	CD0/4/CD00	of 48 hr. hold time
VOC samples have zero headspace?	(Yes)	No	Not Applicable	
Other observations:				
Variance Docum Contact Person: - Kristin Fairis Date/Time: 09-10 Regarding: hold time - CO3/HCO3 Corrective Action Taken:	-ou@. O	930_		
chent doesn't u on 9/7/4 samples	<u> </u>	att	Cun Lly	*H(C)3



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

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

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	"	Ħ	**	"	**	11	
Ethylbenzene	ND	0.00100	11	11	11	u	n	n	
Xylene (p/m)	ND	0.00100	11	11	11	Ħ	н	tt	
Xylene (o)	ND	0.00100	H	и	11	**	н	"	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-12	20	n	"	"_	"	
Surrogate: 4-Bromofluorobenzene		100 %	80-12	20	"	"	,,	"	

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	11	n	EL40105	11/30/04	12/01/04	EPA 160.1	

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		11	n	"	н	H	
Potassium	21.2	0.500	17	10	Ħ	"	**	**	
Sodium	693	1.00	11	100	11	u	11	19	

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	n	"	n	11	11	n	

Project: H-13 Leak Project Number: None Given Fax: (505) 397-1471 Reported: 12/09/04 15:40

Project Manager: Kristin Pope

Organics by GC - Quality Control **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL40601 - EPA 5030C (GC)										
Blank (EL40601-BLK1)				Prepared of	& Analyz	ed: 12/02/)4			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	Ħ							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	Ħ							
Xylene (o)	ND	0.00100	tt.							
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	& Analyz	ed: 12/02/	04			
Benzene	99.2		ug/İ	100		99.2	80-120			
l'oluene	107		Ħ	100		107	80-120			
Ethylbenzene	107		11	100		107	80-120			
Xylene (p/m)	219		п	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	& Analyz	ed: 12/02/	04			
Benzene	100		ug/l	100		100	80-120	0.803	20	
Toluene	110		51	100		110	80-120	2.76	20	
Ethylbenzene	111		**	100		111	80-120	3.67	20	
Xylene (p/m)	230		11	200		115	80-120	4.44	20	
Xylene (o)	119		n	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	i: 12/03/04	ļ		
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			

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 - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL40601 - EPA 5030C (GC)					·					
Matrix Spike (EL40601-MS1)	So	urce: 4K3000	04-03	Prepared:	12/02/04	Analyzed	: 12/03/04			
Benzene	107		ug/l	100	ND	107	80-120			
Toluene	108		H	100	ND	108	80-120			
Ethylbenzene	114		11	100	ND	114	80-120			
Xylene (p/m)	229		"	200	ND	114	80-120			
Xylene (o)	111		11	100	ND	111	80-120			
Surrogate: a,a,a-Trifluorotoluene	0.0206		mg/L	0.0200		103	80-120			
Surrogate: 4-Bromofluorobenzene	0.0201		"	0.0200		100	80-120			

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 - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		DDD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	RPD Limit	Note
Batch EL40105 - General Prepar	ation (WetChem)						_		
Blank (EL40105-BLK1)				Prepared:	11/30/04	Analyzed	: 12/01/04			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EL40105-DUP1)	Sou	rce: 4K2406	09-01	Prepared:	11/30/04	Analyzed	: 12/01/04			
Total Dissolved Solids	1480	5.00	mg/L		1480			0.00	20	
Batch EL40313 - General Prepar	ation (WetChem)					-,-			
Blank (EL40313-BLK1)				Prepared	& Analyz	ed: 12/03/)4	_		
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EL40313-DUP1)	Sou	rce: 4K3000	04-01	Prepared	& Analyz	ed: 12/03/	04			
Total Alkalinity	207	2.00	mg/L		208			0.482	20	
Reference (EL40313-SRM1)				Prepared	& Analyz	ed: 12/03/	04			
Carbonate Alkalinity	0.0501		mg/L	0.0500		100	80-120			

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 - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL40101 - 6010B/No Digestion										
Blank (EL40101-BLK1)				Prepared	& Analyze	d: 11/30/0	04			
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	19							
Potassium	ND	0.0500	U							
Sodium	ND	0.0100	**							
Calibration Check (EL40101-CCV1)				Prepared	& Analyze	d: 11/30/	04			
Calcium	1.87		mg/L	2.00		93.5	85-115	_		
Magnesium	2.08		11	2.00		104	85-115			
Potassium	1.83		н	2.00		91.5	85-115			
Sodium	1.78		11	2.00		89.0	85-115			
Duplicate (EL40101-DUP1)	So	ource: 4K2400	9-01	Prepared	& Analyz	ed: 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	. 11		13.2			17.3	20	
Sodium	222	1.00	**		235			5.69	20	

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 - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL40916 - General Preparation	n (WetChem	1)								
Blank (EL40916-BLK1)				Prepared	& Analyze	ed: 12/08/0	04			
Sulfate	0.00	0.500	mg/L							
Chloride	0.00	0.500	11							
Blank (EL40916-BLK2)				Prepared	& Analyze	ed: 12/08/	04			
Sulfate	0.00	0.500	mg/L							
Chloride	0.00	0.500	"							
LCS (EL40916-BS1)				Prepared	& Analyze	ed: 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	& Analyzo	ed: 12/08/	04			
Chloride	9.77	0.500	mg/L	10.0		97.7	80-120			
Sulfate	11.8	0.500	tt.	10.0		118	80-120			
LCS Dup (EL40916-BSD1)				Prepared	& Analyz	ed: 12/08/	04			
Chloride	9.83	0.500	mg/L	10.0		98.3	80-120	0.817	20	
Sulfate	11.8	0.500	n	10.0		118	80-120	0.851	20	
LCS Dup (EL40916-BSD2)				Prepared	& Analyz	ed: 12/08/	04			
Chloride	9.74	0.500	mg/L	10.0		97.4	80-120	0.308	20	
Sulfate	11.7	0.500	н	10.0		117	80-120	0.851	20	
Calibration Check (EL40916-CCV1)				Prepared	& Analyz	ed: 12/08/	04			
Sulfate	11.7		mg/L	10.0		117	80-120			
Chloride	9.79		11	10.0		97.9	80-120			
Calibration Check (EL40916-CCV2)				Prepared	& Analyz	ed: 12/08/	04			
Chloride	9.80		mg/L	10.0		98.0	80-120			
Sulfate	11.7		n	10.0		117	80-120			

Sulfate

Project: H-13 Leak

Project Number: None Given Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported: 12/09/04 15:40

20

0.830

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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EL40916 - General Prepar	ation (WetChem)		_							
Duplicate (EL40916-DUP1)	Sour	ce: 4L0300	1-01	Prepared	& Analyze	ed: 12/08/0	04			
Chloride	1570	20.0	mg/L		1330			16.6	20	
Sulfate	809	20.0	**		682			17.0	20	
Duplicate (EL40916-DUP2)	Sour	ce: 4L0600	3-02	Prepared	& Analyz	ed: 12/08/	04_			
Chloride	731	20.0	mg/L		725			0.824	20	

20.0

1200

1210

Project: H-13 Leak

Project Number: None Given Project Manager: Kristin Pope

Fax: (505) 397-1471

Reported: 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 Jul

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 Environmental Lab of Texas I, Ltd.

12600 West I-20 East Odessa, Texas 79763

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

Project Manager: Kristin Farris Popl

Project Name: H-13 leak

Company Address: 123 W. Taylor St CINISTATEZIO: HODDS, NM 88240 Company Name RICE Operating

Telephone No: (505)393-9174 Sampler Signature: Jake Jame

Fax No:(505) 397-1471

Analyze For

TCLP:

510

PO #:

Project Loc: EME

Project #:

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Special Instructions:			•												San	nple	Sample Containers Intact?	aine	Si 5	stact.	ا ر خ		(S)		z		ı —
Plansa	Plansa email analysis to Kristin	Kristin	enviro @leaco, net	6	100	Ó	Z	1							Lab	orat	Laboratory Comments:	L OS	mer	ıts:	i		V.	ソング			
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11-30.04 1035

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

Client: Rice Operating Co.				
Date/Time: 11-30-64 @ 1200				
Order #: _ 4K 30008				
Initials:				
Sample Receip	t Checkli	st		·.
Temperature of container/cooler?	Yes	No	0.5	C
Shipping container/cooler in good condition?	(Yes)	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	>
Chain of custody present?	(Yes)	No	_	
Sample Instructions complete on Chain of Custody?	(Yes)	No		
Chain of Custody signed when relinquished and received?	(Yes)	No		
Chain of custody agrees with sample label(s)	(Yes)	No		
Container labels legible and intact?	(Yes)	No		
Sample Matrix and properties same as on chain of custody?	(res)	No		
Samples in proper container/bottle?	(Yes)	No		
Samples properly preserved?	(res)	No		
Sample bottles intact?	res	No		
Preservations documented on Chain of Custody?	(Pes)	No		
Containers documented on Chain of Custody?	(Yes)	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?	res	No		
VOC samples have zero headspace?	(Yes)	No	Not Applicable	
Other observations:				
Variance Documentation: Contact Person: Date/Time: Contacted by: Regarding:				
Corrective Action Taken:			:	
				