# AP - <u>60</u>

# ANNUAL MONITORING REPORT

# **YEAR(S)**: 2005

# **RICE** Operating Company

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

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CERTIFIED MAIL RETURNEECEIPT NO. 7005 1820 0001 6804 7920

March 29, 2006

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: 2005 MONITOR WELL REPORT/SAMPLING SUMMARY JUNCTION K-33-1, EME SWD SYSTEM UNIT 'K', SEC. 33, T19S, R37E NMOCD CASE #1R0427-92

Mr. Price:

Rice Operating Company (ROC) takes this opportunity to submit the 2005 Monitor Well Report for the <u>EME K-33-1 junction box site</u> located in the Eunice Monument Eumont (EME) Salt Water Disposal (SWD) System. One monitoring well was installed in 2002 during the delineation of the K-33-1 junction box. This well is sampled quarterly pursuant to New Mexico Oil Conservation Division (OCD) guidelines and the chemical analyses of the water samples are enclosed. In 2006, Arc Environmental Services of Lovington, New Mexico will sample the well and Environmental Lab of Texas of Odessa will continue to conduct analytical tests of the water samples.

Whole Earth Environmental, Inc. (Whole Earth) of Houston, Texas has been contracted by ROC to address groundwater concerns at this site. In 2005, the OCD required this site subject to Rule 19 (Section 19.15.1.19 NMAC) regulation. A Stage 1 Abatement Plan was submitted by Whole Earth to OCD on December 12, 2005. At the time of this report, public notice for this Stage 1 Abatement Plan is ongoing and OCD approval is pending.

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

Knistin Fairis Tope

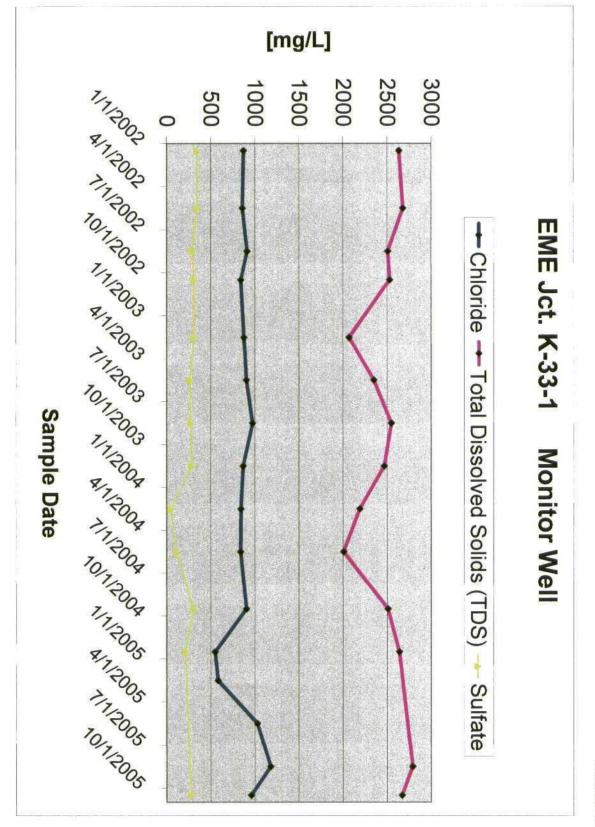
Kristin Farris Pope Project Scientist

enclosures:

Summary table & graph Analytical results map

cc: LBG, CDH, Whole Earth, file, Rob Roy Industries,

Daniel Sanchez Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505



RICE Operating Company Monitor Well Data Sheet

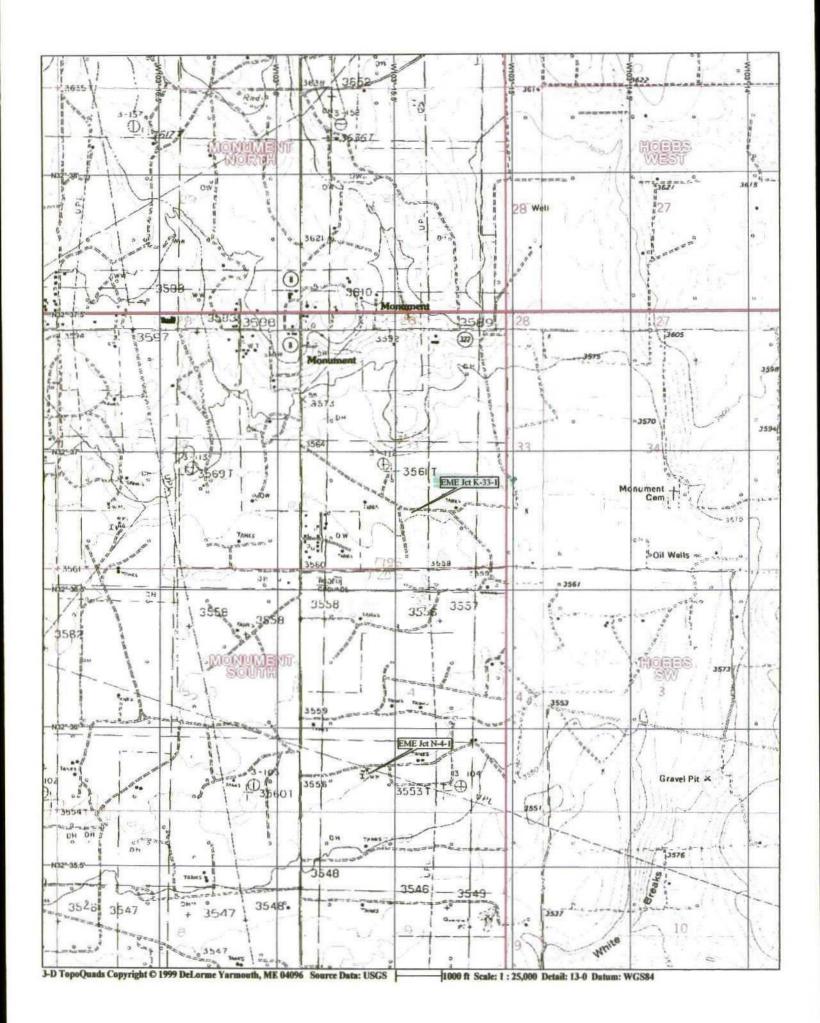
NMOCD Case #1R0427-92

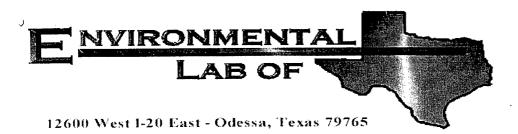
EME jct. K-33-1 unit 'K', Sec. 33, T19S, R37E

RICE Operating Company Monitor Well Data Sheet

	1	1		1	1	1	1	1	1	1	1	1	-	1	1	1	MW #	]
31.10	32.15	XXX	XXX	XXX	32.91	37.12	37.30	37.40	37.40	37.29	31.10	37.10	37.11	37.20	36.88	36.90	DEPTH TO WATER *	(ft)
41.00	41.00	XXX	XXX	XXX	41.00	41.00	40.75	40.75	40.78	40.04	41.20	40.77	40.77	40.79	40.78	41.00	DEPTH	( <b>1</b>
1.600	1.400	XXX	XXX	XXX	XXX	XXX	0.550	0.540	0.540	0.440	1.616	0.580	0.586	0.574	0.624	0.700	WELL VOLUME	g)
6.00	5.00	XXX	XXX	XXX	4.05	2.00	2.00	1.60	1.60	1.32	4.80	1.70	1.75	1.75	2.90	2.00	PURGED	(gal)
1/18/06	10/19/05	08/30/05	05/01/05	02/11/05	12/21/04	09/02/04	05/26/04	02/18/04	11/19/03	08/21/03	05/22/03	02/27/03	10/31/02	08/12/02	05/13/02	01/10/02	SAMPLE DATE	
1000	961	1180	1030	582	550	904	840	844	869	975	904	877	842	913	860	872	CI	
2480	2670	2790	XXX	XXX	2640	2510	2008	2192	2470	2550	2350	2070	2530	2510	2680	2635	TDS	
<0.001	<0.001	<0.001	XXX	XXX	<0.001	< 0.001	<0.002	<0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<1.00	<0.002	BENZENE	All concentrati
< 0.001	< 0.001	< 0.001	XXX	XXX	< 0.001	<0.001	<0.002	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<1.00	<0.002	TOLUENE	ations are in mg/L
< 0.001	< 0.001	< 0.001	XXX	XXX	<0.001	< 0.001	< 0.002	< 0.002	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	<1.00	<0.002	ETHYL BENZENE	mg/L
< 0.001	<0.001	<0.001	XXX	XXX	<0.001	< 0.001	<0.006	<0.006	<0.002	<0.002	<0.002	0.001	<0.002	<0.002	<2.00	<0.006	TOTAL XYLENES	
264	276	XXX	XXX	XXX	216	304	113	43	282	274	264	305	310	292	346	344	SULFATE	
clear						clear											COMMENTS	

\* Depth to water measured from top of casing Casing is <u>3.021 ft</u>





# Analytical Report

# **Prepared for:**

Mike Griffin WHOLE EARTH ENVIRONMENTAL 2103 Arbor Cove Katy, TX 77494

COPF MW-1

Project: K-33-1 Project Number: None Given Location: Monument

Lab Order Number: 5B17006

Report Date: 02/21/05

#### Project: K-33-1 Project Number: None Given Project Manager: Mike Griffin

#### Fax: (281) 394-2051

Reported:

02/21/05 16:40

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
K-33-1 MW-1	5B17006-01	Water	02/11/05 14:30	02/17/05 09:00

#### Project: K-33-1 Project Number: None Given Project Manager: Mike Griffin

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
K-33-1 MW-1 (5B17006-01) Water									
Chloride	582	10.0	mg/L	20	EB52108	02/19/05	02/19/05	EPA 300.0	

Environmental Lab of Texas

# 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 EB52108 - General Preparatio	n (WetChen	n)										
Blank (EB52108-BLK1)				Prepared & Analyzed: 02/19/05								
Chloride	ND	0.500	mg/L									
LCS (EB52108-BS1)	Prepared	& Analyze	ed: 02/19/	05								
Chloride	9.68		mg/L	10.0		96.8	80-120					
LCS Dup (EB52108-BSD1)				Prepared & Analyzed: 02/19/05								
Chloride	8.57		mg/L	10.0		85.7	80-120	12.2	20			
Calibration Check (EB52108-CCV1)				Prepared & Analyzed: 02/19/05								
Chloride	9.47		mg/L	10.0		94.7	80-120					
Duplicate (EB52108-DUP1)	So	urce: 5B1601	0-01	Prepared	& Analyz	ed: 02/19/	05					
Chloride	853	25.0	mg/L		822			3.70	20			

Environmental Lab of Texas

WHOLE EARTH ENVIRONMENTAL
2103 Arbor Cove
Katy TX, 77494

#### Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
ND	Analyte NOT DETECTED at of above the reporting minit
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: King and E Juil Date: 2-21-05

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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

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

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 4 of 4

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er	Project Manager: M. Griffin	Company Name <u>Whole Earth Environmental, Inc</u> .	Company Address: 2103 Arbor Cove	City/State/Zip: Katy, Tx. 77494	Telephone No:	Sampler Signature:													ra
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# Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: <u>W</u>	hole Earth Env.
Date/Time:	2/11/05 9:50
Order #:	51317006
Initials:	Ml

#### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	13.0 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?	MES)	No	
Sample Instructions complete on Chain of Custody?	Jes	No	
Chain of Custody signed when relinquished and received?	YES	No	
Chain of custody agrees with sample label(s) no label	Yes	No	written on lid
Container labels legible and intact?	Yes	No	nla
Sample Matrix and properties same as on chain of custody?	Mes	No	
Samples in proper container/bottle?	Xes	No	
Samples properly preserved?	Xas	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Tres	No	
Containers documented on Chain of Custody?	Tes	No	
Sufficient sample amount for indicated test?	(Teg)	No	1
All samples received within sufficient hold time?	Xes,	No	
VOC samples have zero headspace?	YES	No	Not Applicable

Other observations:

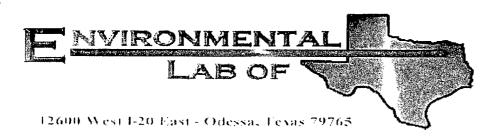
Variance Documentation:

Contact Person: -\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Regarding:

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Corrective Action Taken:

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# Analytical Report

#### **Prepared for:**

Mike Griffin WHOLE EARTH ENVIRONMENTAL 2103 Arbor Cove Katy, TX 77494



Project: K-33-1 Project Number: None Given Location: Monument, NM

Lab Order Number: 5E02018

Report Date: 05/05/05

WHOLE EARTH ENVIRONMENTAL	Project:	K-33-1	Fax: (281) 394-2051
2103 Arbor Cove	Project Number:	None Given	Reported:
Katy TX, 77494	Project Manager:	Mike Griffin	05/05/05 12:50

#### ANALYTICAL REPORT FOR SAMPLES

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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5E02018-01	Water	05/01/05 12:10	05/02/05 14:45

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WHOLE EARTH ENVIRONMENTAL	Project: K-33-1	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	Reported:
Katy TX, 77494	Project Manager: Mike Griffin	05/05/05 12:50

#### General Chemistry Parameters by EPA / Standard Methods

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5E02018-01) Water									
Chloride	1030	25.0	mg/L	50	EE50408	05/03/05	05/03/05	EPA 300.0	

Environmental Lab of Texas

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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 4

WHOLE EARTH ENVIRONMENTAL 2103 Arbor Cove Katy TX, 77494		Pr Project Nu Project Mar		ne Given					Fax: (281) 394-2051 Reported: 05/05/05 12:50		
Genera	l Chemistry Parz	meters by Environm				ls - Qua	lity Con	trol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch EE50408 - General Preparati	on (WetChem)										
Blank (EE50408-BLK1)				Prepared &	Analyzed:	05/03/05					
Chloride	ND	0.500	mg/L								

mg/L

mg/L

mg/L

10.7

10.2

1020

Source: 5E02018-01

25.0

Prepared & Analyzed: 05/03/05

Prepared & Analyzed: 05/03/05

Prepared & Analyzed: 05/03/05

1030

107

102

80-120

80-120

0.976

20

10.0

10.0

Environmental Lab of Texas

LCS (EE50408-BS1)

Calibration Check (EE50408-CCVI)

Duplicate (EE50408-DUP1)

Chloride

Chloride

Chloride

#### WHOLE EARTH ENVIRONMENTAL 2103 Arbor Cove Katy TX, 77494

#### Project: K-33-1 Project Number: None Given Project Manager: Mike Griffin

Fax: (281) 394-2051

**Reported:** 05/05/05 12:50

#### **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
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:

Raland K Jutits

5/5/2005

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.

Date:

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Environmental Lab of Texas

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nc.	والمحافظ								Date Sampled	2-1-2										Invoice Rice Oper. Copy of results to Rice & Whole Earth.	•	Received by:	Received by ELOT	1
<b>Of Texas</b> , hone: 432-563-1800 Fax: 432-563-1713		mental, Inc.																		Invoice Ri			Time	
Lab of Texas, Phone: 432-563-1800 Fax: 432-563-1713		Earth Environ	thor Cove	x. 77494	N. C.M.	- Jala	<b>b</b>			MW-1	متعاسب سراجي والمحالي											5-2-05	Date	
Environmental 12600 West I-20 East Odessa, Texas 79763	Project Manager:	Company Name Whole Earth Environmental, Inc.	Company Address: 2103 Arbor Cove	City/State/Zip: Katy, Tx. 77494	Telephone No: 281.394.2050 Sampler Signature:	-			e e	2										Special instructions:				And and a second se
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Environmental Lab of Texas Corrective Action Report – Sample Log-In

	Variance / Corrective A
	Male Earth Env.
Dete/Time:	5/2/05 3:00
Order #:	5E02018
Initials:	CK.

## Sample Receipt Checklist

Temperature of containes: cooler?	; Y	es_	!	Nic	Ì	1.5	C
Shipping container/cooler in good condition?	I V	35	(	Nic	1		
Custody Seals intact on shipping container/cooler?	1 7	<u>z9</u>	i 1	No	1	Not preser	17
Custody Seals Intact on sample cottles?	1	₹£	1	No	•	Not creser	::
Chain of custody present?	1 7	6)	)	No	1		
Sample Instructions complete on Chain of Custody?	18	63	1	No	1		
Chain of Custody signed when relinquished and received?	! 2	Ę.	:	Nc	;		
Chain of custody sprees with sample label(s)	1	39	,	Na	:		
Container labels legible and intact?	ć	Ð	:	Nic			
Sample Main's and properties same as on chain of ousrody?	Ĭ	Ð3		No			
Samples in proper container/bottle?		35		Nic		· · · · · · · · · · · · · · · · · · ·	****
Samples proceny preserved?	C	¥		Ne		· · · · · · · · · · · · · · · · · · ·	
Sample polities intact?		È		NC			
Preservations documented on Chain of Custody?	: ¥	ŝş		Ne			
Containers documented on Chain of Custony?		):		Ne		······································	
Sufficient samele amount for incidated test?	1	Ì		1.2			
All samples received within sufficient note onte?	1	3		Mc			
VCC samples have zero headspace?	× ;	2:		NC		Not Applica	<u>5</u> :3

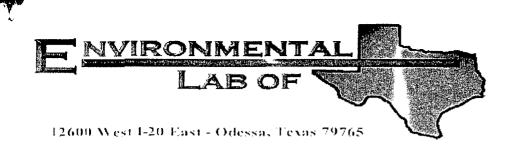
Other observations:

Variance Documentation:

Contact Person:	-	Date Time:	·	Contacted	by:	
Regeraing:	· · · ·					

\_\_\_\_\_

Corrective Action Taken:



# Analytical Report

## Prepared for:

Mike Griffin WHOLE EARTH ENVIRONMENTAL 2103 Arbor Cove Katy, TX 77494



Project: K-33-1 EOL Project Number: None Given Location: Eunice, NM

Lab Order Number: 5H30013

Report Date: 09/08/05

	WHOLE EARTH ENVIRONMENTAL	Project:	K-33-1 EOL	Fax: (281) 394-2051
	2103 Arbor Cove	Project Number:	None Given	Reported:
	Katy TX, 77494	Project Manager:	Mike Griffin	09/08/05 09:59
L			·	

#### ANALYTICAL REPORT FOR SAMPLES

5

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW #1	5H30013-01	Water	08/30/05 10:15	08/30/05 15:22

31

1

1 15

WHOLE EARTH ENVIRONMENTAL	Project: K-33-1 EOL	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: None Given	Reported:
Katy TX, 77494	Project Manager: Mike Griffin	09/08/05 09:59

#### Organics by GC

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW #1 (5H30013-01) Water	••••				·······				
Benzene	ND	0.00100	mg/L	I	E150105	09/01/05	09/01/05	EPA 8021B	
Toluene	ND	0.00100	n	•	••	**	"		
Ethylbenzene	ND	0.00100	"				"		
Xylene (p/m)	ND	0.00100	"	"		"			
Xylene (o)	ND	0.00100	н	"	μ	"	"	n	
Surrogate: a,a,a-Trifluorotoluene		90.8 %	80-12	0	"	"	11	11	
Surrogate: 4-Bromofluorobenzene		81.9 %	80-12	0	"	"	"	n	

Environmental Lab of Texas

#### WHOLE EARTH ENVIRONMENTAL 2103 Arbor Cove Katy TX, 77494

#### Project: K-33-1 EOL Project Number: None Given

Fax: (281) 394-2051

Reported: 09/08/05 09:59

Project Number: None Given Project Manager: Mike Griffin

#### General Chemistry Parameters by EPA / Standard Methods

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW #1 (5H30013-01) Water					·				·····
Carbonate Alkalinity	ND	0.100	mg/L	I	EI50101	08/31/05	08/31/05	EPA 310.2M	
Bicarbonate Alkalinity	248	2.00	-		"	"		"	
Hydroxide Alkalinity	ND	0.100	"		Ð	11	n	"	
Chloride	1180	12.5	"	25	EH53109	08/31/05	08/31/05	EPA 300.0	
Total Dissolved Solids	2790	5.00	21	I	E150208	08/31/05	08/31/05	EPA 160.1	
Sulfate	266	12.5	"	25	EH53109	08/31/05	08/31/05	EPA 300.0	

Environmental Lab of Texas

WHOLE EARTH ENVIRONMENTAL	Project: K-3	33-1 EOL	Fax: (281) 394-2051
2103 Arbor Cove	Project Number: Nor	ne Given	Reported:
Katy TX, 77494	Project Manager: Mik	ke Griffin	09/08/05 09:59

#### Total Metals by EPA / Standard Methods

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW #1 (51130013-01) Water									
Calcium	298	0.500	mg/L	50	E150708	09/06/05	09/06/05	EPA 6010B	
Magnesium	136	0.0500	•	"	11	"	"	"	
Potassium	17.1	0.500		10	n	D			
Sodium	350	0.500	"	50	4	"		91	

Environmental Lab of Texas

WHOLE EARTH ENVIRONMENTAL		Pr	oject: K-	33-1 EOL					Fax: (281)	394-2051
2103 Arbor Cove		Project Nu	mber: No	one Given					Repo	rted:
Katy TX, 77494		Project Ma	nager: M	ike Griffin	·····				09/08/0	5 09:59
	0	rganics by	GC - (	Juality Co	ontrol					
		Environm	ental l	Lab of Te	xas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch E150105 - EPA 5030C (GC)										
Blank (E150105-BLK1)				Prepared &	Analyzed	: 09/01/05				
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	*							
Kylene (p/m)	ND	0.00100								
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	92.2		ug/l	100		92.2	80-120			
urrogate: 4-Bromofluorobenzene	81.2		"	100		81.2	80-120			
LCS (E150105-BS1)				Prepared &	Analyzed	09/01/05				
Benzene	80.9	· · · · · · · ·	ug/l	100		80.9	80-120			
oluene	82.0		"	100		82.0	80-120			
thylbenzene	94.1		"	100		94.1	80-120			
Kylene (p/m)	185		"	200		92.5	80-120			
(ylene (o)	97.3			100		97.3	80-120			
urrogate: a,a,a-Trifluorotoluene	101		"	100		101	80-120			
urrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			
Calibration Check (EI50105-CCV1)				Prepared &	Analyzed	: 09/01/05				
Benzene	84.5		ug/l	100		84.5	80-120			
Toluene	82.2			100		82.2	80-120			
Ethylbenzene	89.0		**	100		89.0	80-120			
Kylene (p/m)	176		"	200		88.0	80-120			
(ylene (o)	89.6			100		89.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	105		#	100		105	80-120			
urrogate: 4-Bromofluorobenzene	106		"	100		106	80-120			
Aatrix Spike (EI50105-MS1)		rce: 5H30013-		· · · · · · · · · · · · · · · · · · ·		nalyzed: 09				
Benzene	83.3		ug/l	100	ND	83,3	80-120			
olucne	83.4		"	100	ND	83.4	80-120			
thylbenzene	95.5			100	ND	95,5	80-120			
Kylene (p/m)	187		,,	200	ND	93.5	80-120			
(y)	97.7		11	100	ND	97.7	80-120			
urrogate: a,a,a-Trifluorotoluene	103		17	100		103	80-120			
Surrogate: 4-Bromofluorobenzene	110		"	100		110	80~120			

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Page 5 of 10

#### Project: K-33-1 EOL Project Number: None Given Project Manager: Mike Griffin

Fax: (281) 394-2051

Reported: 09/08/05 09:59

#### **Organics by GC - Quality Control**

#### **Environmental Lab of Texas**

	<b>D b</b>	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit I	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI50105 - EPA 5030C (GC)										
Matrix Spike Dup (El50105-MSD1)	Sour	ce: 5H30013-01		Prepared: 0	9/01/05 Ar	nalyzed: 09	/02/05			
Benzene	82.3		ug/l	100	ND	82.3	80-120	1.21	20	
Toluene	84.0		"	100	ND	84.0	80-120	0.717	20	
Ethylbenzene	98.7		0	100	ND	98.7	80-120	3.30	20	
Xylene (p/m)	194			200	ND	97.0	80-120	3.67	20	
Xylene (o)	103		"	100	ND	103	80-120	5.28	20	
Surrogate: a,a,a-Trifluorotoluene	100		"	100		100	80-120			
Surrogate: 4-Bromofluorobenzene	112		"	100		112	80-120			

Environmental Lab of Texas

WHOLE EARTH ENVIRONMENTAL	Project:	K-33-1 EOL	Fax: (281) 394-2051
2103 Arbor Cove	Project Number:	None Given	Reported:
Katy TX, 77494	Project Manager:	Mike Griffin	09/08/05 09:59

#### 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
					Result	, <b>m</b> .c.,		KI D	Linit	
Batch EH53109 - General Preparation (	WetChem)									
Blank (EH53109-BLK1)				Prepared &	Analyzed:	08/31/05				
Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							
LCS (EH53109-BS1)				Prepared &	Analyzed:	08/31/05				
Chloride	9.62		mg/L	10.0		96.2	80-120			
Sulfate	8.52		n	10.0		85.2	80-120			
Calibration Check (EH53109-CCV1)				Prepared &	Analyzed:	08/31/05				
Chloride	9.02		mg/L	10.0		90.2	80-120			
Sulfate	8.42		н	10.0		84.2	80-120			
Duplicate (EH53109-DUP1)	Sou	rce: 5H30012-	01	Prepared &	Analyzed:	08/31/05				
Chloride	2330	25.0	mg/L		2380			2.12	20	
Sulfate	2120	25.0	н		2170			2.33	20	
Batch El50101 - General Preparation (V	VetChem)									
Blank (EI50101-BLK1)				Prepared &	Analyzed:	08/31/05				
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EI50101-DUP1)	Sou	rce: 5H30013-	-01	Prepared &	Analyzed:	08/31/05				
Carbonate Alkalinity	0.00	0.100	mg/L		0.00				20	
Bicarbonate Alkalinity	249	2.00	**		248			0.402	20	
Hydroxide Alkalinity	0.00	0.100	"		0.00				20	
Reference (EI50101-SRM1)				Prepared &	Analyzed:	08/31/05				

Environmental Lab of Texas

#### General Chemistry Parameters by EPA / Standard Methods - Quality Control

#### **Environmental Lab of Texas** %REC RPD Reporting Spike Source Result Limit Units Level %REC Limits RPD Limit Analyte Result Notes Batch E150208 - General Preparation (WetChem) Blank (EI50208-BLK1) Prepared & Analyzed: 08/31/05 Total Dissolved Solids ND 5.00 mg/L Duplicate (E150208-DUP1) Source: 5H30012-01 Prepared & Analyzed: 08/31/05 Total Dissolved Solids 3870 5.00 3830 1.04 mg/L 5

Environmental Lab of Texas

#### Project: K-33-1 EOL Project Number: None Given Project Manager: Mike Griffin

Reported: 09/08/05 09:59

#### Total Metals 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 EI50708 - 6010B/No Digestion										
Blank (EI50708-BLK1)				Prepared &	Analyzed:	09/06/05				
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	м							
Potassium	ND	0.0500	19							
Sodium	ND	0.0100	n							
Calibration Check (E150708-CCV1)				Prepared &	Analyzed:	09/06/05				
Calcium	2.14		mg/L	2.00		107	85-115			
Magnesium	2.19		"	2.00		110	85-115			
Potassium	1.77		"	2.00		88.5	85-115			
Sodium	1.86			2.00		93.0	85-115			
Duplicate (EI50708-DUP1)	Sou	rce: 5H18012-	-01	Prepared &	: Analyzed:	09/06/05				
Calcium	19.4	0.100	mg/L		19.8			2.04	20	
Magnesium	22.1	0.0100	*1		23.2			4.86	20	
Potassium	22.4	0.500	"		23.3			3.94	20	
Sodium	51.3	0.100	"		51.0			0.587	20	

Environmental Lab of Texas

#### Project: K-33-1 EOL Project Number: None Given Project Manager: Mike Griffin

Reported: 09/08/05 09:59

#### **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 Julies

Date:

9/8/2005

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

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

Environmental Lab of Texas

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al Lab C		Company Name Whole Earth Environmental, Inc.	Company Address: 2103 Arbor Cove	City/State/Zip: Katy, Tx. 77084	Telephone No: 281.394.2050					Pield Code										05	<b></b>
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Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763 Fax: 915-563-1713	Project Manager:	Company	Company Ad	City/Sta	Telepho	Sampler Signature:												Special Instructions:		Heinquishad by	Relinquished by:
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# Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client:	Whole Earth.
Date/Time:	930/05
Order #:	5H20013
Initials:	CR

## Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	0.0	<u> </u>
Shipping container/cooler in good condition?	<b>C</b>	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not prese	at
Custody Seals intact on sample bottles?	Yes	No	Not prese	nt
Chain of custody present?	Xes	No		1
Sample Instructions complete on Chain of Custody?	YES	No	l	
Chain of Custody signed when relinguished and received?	YED	No		
Chain of custody agrees with sample label(s)	Yes	No	IID on bot	the
Container labels legible and intact?	Yes	No	nla	
Sample Matrix and properties same as on chain of custody?	Yers	No		
Samples in proper container/bottle?	! YES !	No		į
Samples procerly preservea?	Cs I	No	1	
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	1 125 1	No		1
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	Yes	No		i
All samples received within sufficient hold time?	Yes	No		
VOC samples have zero headspace?	(Tes)	No	K-Not Acolica	Sic
	VOA		12-pe	ų

Other observations:

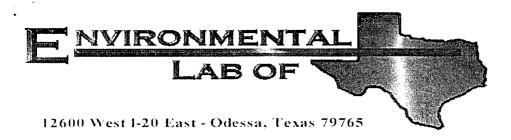
# Variance Documentation: Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Contact Person:	Da
Regarding	

Corrective Action Taken:

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# Analytical Report

# **Prepared for:**

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



Project: EME Jct. K-33-1 Project Number: None Given Location: Lea County

Lab Order Number: 5J20012

Report Date: 10/25/05

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

117

#### Project: EME Jct. K-33-1 Project Number: None Given Project Manager: Kristin Farris-Pope

#### Fax: (505) 397-1471

Reported: 10/25/05 16:53

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	5J20012-01	Water	10/19/05 14:00	10/20/05 09:30

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

#### Project: EME Jct. K-33-1 Project Number: None Given Project Manager: Kristin Farris-Pope

# Organics by GC

**Environmental Lab of Texas** 

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (5J20012-01) Water									
Benzene	ND	0.00100	mg/L	1	EJ52011	10/20/05	10/21/05	EPA 8021B	
Toluene	ND	0.00100	н	н	0	11		u	
Ethylbenzene	ND	0.00100	"	н	0		11	67	
Xylene (p/m)	ND	0.00100	11	н	0	"	0	U	
Xylene (o)	ND	0.00100	и	11	11	11	н	н	
Surrogate: a,a,a-Trifluorotoluene		101 %	80-12	20	"	"	"	<i>n</i>	
Surrogate: 4-Bromofluorobenzene		84.5 %	80-12	20	"	"	"	п	

Environmental Lab of Texas

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

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#### Project: EME Jct. K-33-1 Project Number: None Given Project Manager: Kristin Farris-Pope

#### 10/26/05 15:15

# 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 (5J20012-01) V	Vater								
Total Alkalinity	236	2.00	mg/L	1	EJ52114	10/21/05	10/21/05	EPA 310.2M	
Chloride	961	25.0		50	EJ52110	10/21/05	10/21/05	EPA 300.0	
Total Dissolved Solids	2670	5.00	*1	1	EJ52403	10/20/05	10/21/05	EPA 160.1	
Sulfate	276	25.0	11	50	EJ52110	10/21/05	10/21/05	EPA 300.0	

Environmental Lab of Texas

#### Project: EME Jct. K-33-1 Project Number: None Given Project Manager: Kristin Farris-Pope

#### Total Metals by EPA / Standard Methods

#### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (5J20012-01) Water									
Calcium	288	1.00	mg/L	100	EJ52111	10/21/05	10/21/05	EPA 6010B	
Magnesium	119	0.0500	н	50	11	19		17	
Potassium	16.9	0.500	"	10	11			D	
Sodium	332	1.00		100	u.		D	U	

Environmental Lab of Texas

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# **Organics by GC - Quality Control**

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ52011 - EPA 5030C (GC)	<u> </u>									
Blank (EJ52011-BLK1)				Prepared	& Analyza	ed: 10/20/0	)5			
Benzene	ND	0.00100	mg/L						/	
Toluene	ND	0.00100	11							
Ethylbenzene	ND	0.00100	11							
Xylene (p/m)	ND	0.00100								
Xylene (o)	ND	0.00100	11							
Surrogate: a,a,a-Trifluorotoluene	38.1		ug/l	40.0		95.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.4		"	40.0		88.5	80-120			
LCS (EJ52011-BS1)				Prepared	& Analyze	ed: 10/20/0	)5			
Benzene	0.0402	0.00100	mg/L	0.0500		80.4	80-120			
Toluene	0.0490	0.00100	п	0.0500		98.0	80-120			
Ethylbenzene	0.0592	0.00100	11	0.0500		118	80-120			
Xylene (p/m)	0.115	0.00100	"	0.100		115	80-120			
Xylene (o)	0.0584	0.00100		0.0500		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	39.9		11	40.0		99.8	80-120			
Calibration Check (EJ52011-CCV1)				Prepared:	10/20/05	Analyzed	: 10/24/05			
Benzene	0.0598		mg/L	0.0500		120	80-120			
Toluene	0.0593		п	0.0500		119	80-120			
Ethylbenzene	0.0586		n	0.0500		117	80-120			
Xylene (p/m)	0.113			0.100		113	80-120			
Xylene (o)	0.0584		11	0.0500		117	80-120			
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/l	40.0		115	80-120			
Surrogate: 4-Bromofluorobenzene	40.0		"	40.0		100	80-120			
Matrix Spike (EJ52011-MS1)	So	ource: 5J2003	0-02	Prepared:	10/20/05	Analyzed	: 10/24/05			
Benzene	0.0578	0.00100	mg/L	0.0500	ND	116	80-120			
Toluene	0.0568	0.00100	(I	0.0500	ND	114	80-120			
Ethylbenzene	0.0584	0.00100	н	0.0500	ND	117	80-120			
Xylene (p/m)	0.109	0.00100	п	0.100	ND	109	80-120			
Xylene (o)	0.0571	0.00100	18	0.0500	ND	114	80-120			
Surrogate: a,a,a-Trifluorotoluene	41.9		ug/l	40.0		105	80-120			
Surrogate: 4-Bromofluorobenzene	34.8		"	40.0		87.0	80-120			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

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#### Project: EME Jct. K-33-1 Project Number: None Given Project Manager: Kristin Farris-Pope

**Reported:** 10/25/05 16:53

# **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 EJ52011 - EPA 5030C (GC)

Matrix Spike Dup (EJ52011-MSD1)	Sou	ırce: 5J2003	0-02	Prepared:	10/20/05	Analyzed:	10/24/05		
Benzene	0.0591	0.00100	mg/L	0.0500	ND	118	80-120	1.71	20
Toluene	0.0599	0.00100	н	0.0500	ND	120	80-120	5.13	20
Ethylbenzene	0.0597	0.00100	н	0.0500	ND	119	80-120	1.69	20
Xylene (p/m)	0.119	0.00100	n	0.100	ND	119	80-120	8.77	20
Xylene (0)	0.0596	0.00100	n	0.0500	ND	119	80-120	4.29	20
Surrogate: a.a.a-Trifluorotoluene	43.8		ug/l	40.0		110	80-120	- · · · ·	
Surrogate: 4-Bromofluorobenzene	40.7		"	40.0		102	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
Batch EJ52110 - General Preparation	(WetChem)	)								
Blank (EJ52110-BLK1)				Prepared	& Analyze	ed: 10/21/	05			
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	н							
LCS (EJ52110-BS1)				Prepared	& Analyze	ed: 10/21/	05			
Chloride	8.53		mg/L	10.0		85.3	80-120			
Sulfate	8.86		ŧı	10.0		88.6	80-120			
Calibration Check (EJ52110-CCV1)				Prepared	& Analyze	ed: 10/21/	05			
Chloride	8.88		mg/L	10.0		88.8	80-120			
Sulfate	9.26		"	10.0		92.6	80-120			
Duplicate (EJ52110-DUP1)	Sou	rce: 5J2000	7-01	Prepared	& Analyze	ed: 10/21/	05			
Chloride	992	12.5	mg/L		978			1.42	20	
Sulfate	355	12.5	н		357			0.562	20	
Batch EJ52114 - General Preparation	(WetChem)	)								
Blank (EJ52114-BLK1)				Prepared	& Analyze	ed: 10/21/	05			
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EJ52114-DUP1)	Sou	rce: 5J2000	6-01	Prepared	& Analyze	ed: 10/21/	05			
Total Alkalinity	229	2.00	mg/L		230			0.436	20	
Reference (EJ52114-SRM1)				Prepared	& Analyza	ed: 10/21/	05			
Bicarbonate Alkalinity	229		mg/L	200		114	80-120			

Environmental Lab of Texas

Rice Operating Co.	Project: EME Jct. K-33-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	10/25/05 16:53

# 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 EJ52403 - General Prepara	ation (WetChem)	)								
Blank (EJ52403-BLK1)				Prepared:	10/20/05	Analyzed	: 10/21/05			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EJ52403-DUP1)	Sou	rce: 5J2000	6-01	Prepared:	10/20/05	Analyzed	: 10/21/05			
Total Dissolved Solids	732	5.00	mg/L	ALL IF AND ALT IN THE ALL INTERNAL INT	766			4.54	5	

Environmental Lab of Texas

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#### 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 EJ52111 - 6010B/No Digestion		<u></u>								
Blank (EJ52111-BLK1)				Prepared	& Analyze	ed: 10/21/	05			
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	"							
Potassium	ND	0.0500	"							
Sodium	ND	0,0100	"							
Calibration Check (EJ52111-CCV1)				Prepared	& Analyze	ed: 10/21/	05			
Calcium	1.94		mg/L	2.00		97.0	85-115		1.0.0	
Magnesium	2.11		н	2.00		106	85-115			
Potassium	1.86		н	2.00		93.0	85-115			
Sodium	1.89		н	2.00		94.5	85-115			
Duplicate (EJ52111-DUP1)	So	urce: 5J2000	6-01	Prepared	& Analyza	ed: 10/21/0	05			
Calcium	43.0	0.100	mg/L		43.2			0.464	20	
Magnesium	23.8	0.0100	ч		24.0			0.837	20	
Potassium	11.0	0.500	"		10.9			0.913	20	
Sodium	136	0.500			135			0.738	20	

Environmental Lab of Texas

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Rice Operating Co.	Project: EME Jct. K-33-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	10/25/05 16:53

#### Notes and Definitions

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

Dup Duplicate

Report Approved By: Date:

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

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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

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

Client:	Rive
Date/Time: _	10/20/05 9:30
Order #:	5520012
Initials:	CK

# Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1,0 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?	Yjes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	(as	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	YES	No	
VOC samples have zero headspace?	YES	No	Not Applicable

Other observations:

Contact Person: Regarding:	Variance Documentation: Date/Time:	_ Contacted by:
Corrective Action Taken:	· · · · · · · · · · · · · · · · · · ·	