AP - <u>44</u>

ANNUAL MONITORING REPORT

YEAR(S): 2005



Highlander Environmental Corp.

Midland, Texas

CERTIFIED MAIL RETURN RECEIPT NO. 7005 1160 0005 3780 4869

March 17, 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 Annual Summary Report, Rice Operating Company, Eunice Monument Eumont (EME) SWD System H-13 Leak, Unit H, Section 13, T-20-S, R-36-E, Lea County, New Mexico, NMOCD CASE #1R0429 (AP-44)

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2005 Annual Summary Report for the Rice Operating Company (ROC), Eunice Monument Eumont (EME) SWD System H-13 Leak.

Background

ROC discovered an accidental discharge at the above referenced site on July 3, 2002. The soil had settled underneath a 4" asbestos/concrete system line causing it to break. According to the C-141 form (Initial) filed on July 11, 2002, the total volume spilled was 10 barrels with 5 barrels recovered and disposed of into the EME SWD system. The pipeline leak was permanently repaired to minimize the potential for further impairment. The site location is shown on Figure 1.

Two delineation trenches were excavated on July 22, 2002, one on the east side of the system line and one on the west side of the line. Chloride concentrations in the east trench decreased to 254 mg/kg at a depth of 8 feet below ground surface, while the west trench exhibited elevated chloride levels to 12 feet below ground surface (bgs). A soil boring was installed on September 25, 2002 to further delineate the depth of impact. Based upon the chloride concentrations and relatively shallow groundwater (~31 feet bgs), this soil boring was completed as a monitoring well. The well was completed to a total depth of 41 feet bgs.

On December 13, 2002, the NMOCD was notified of groundwater impact. The monitoring well has been sampled on a quarterly basis since October 2002. The only constituent of concern (COC) at this site is chloride.

Monitor Well Sampling

The site monitor well (MW-1) was sampled on March 30, June 21, September 16 and October 19, 2005. Prior to sampling, the well was gauged for static water level. The monitor well cap was opened and water level measurements were taken from the top of the casing. The measurements were taken to the nearest 0.01 feet.

The well was then purged using a portable submersible pump. Approximately three casing volumes of water were purged from the well prior to sampling. The pump and associated tubing were decontaminated with a laboratory grade detergent and rinsed with deionized water. Cumulative water level measurements and purge volumes for the monitor wells are included in the Tables Section of this report.

The well was also inspected for the presence of phase-separated hydrocarbons (PSH). Groundwater samples were collected as soon as possible after the groundwater returned to its static level. Groundwater samples were collected using clean disposable polyethylene bailers and disposable line. The samples were transferred into labeled and preserved containers provided by the laboratory. The samples were delivered under proper chain-of-custody control to Environmental Labs of Texas, Inc., Odessa, Texas. The groundwater samples were analyzed for major anions, by methods 310.1, 9253 and 375.4, cations by method 6010B, Total Dissolved Solids (TDS) by method 160.1 and Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) by method EPA 8021B. Copies of the laboratory reports are enclosed in Appendix A.

Monitor Well Sample Results

In 2005, there were no BTEX constituents detected at or above reporting limits for MW-1. Chloride and total dissolved solid (TDS) concentrations from monitor well MW-1 exceeded the Water Quality Control Commission (WQCC) standards of 250 mg/L for chloride and 1000 mg/L for TDS in all sampling events. Cumulative analytical data is summarized in the Table Section of this report.

Stage I Abatement Plan

On March 24, 2005 an Investigation and Characterization Plan (ICP) was submitted to the NMOCD. On May 5, 2005, Daniel Sanchez with the NMOCD requested a Rule 19, Stage I Abatement Plan for this site. On July 12, 2005 a Stage I Abatement Plan was submitted to the NMOCD. The plan was certified "Administratively Complete" on November 18, 2005. The Public Notice requirement of the Stage I Abatement Plan was satisfied in December, 2005. Prior to submission of this 2005 Annual Report, the Stage I Abatement Plan approval was received, dated February 23, 2006.



Midland, Texas

Conclusions and Recommendations

- 1. In 2005, there were no BTEX constituents detected at or above reporting limits for MW-1.
- 2. Chloride and total dissolved solid (TDS) concentrations from monitor well MW-1 exceeded the Water Quality Control Commission (WQCC) standards of 250 mg/L for chloride and 1000 mg/L for TDS in all sampling events.
- 3. Quarterly monitoring at this site will continue and an annual report will be prepared and submitted to the NMOCD in the first quarter of 2007.
- 4. Prior to submission of this 2005 Annual Report, the Stage I Abatement Plan approval was received, dated February 23, 2006. The Stage I Abatement Plan will be implemented as approved. Once completed, a Stage II Abatement Plan will be prepared and submitted to the NMOCD.



Respectfully Submitted, HIGHLANDER ENVIRONMENTAL CORP.

Timothy M. Reed, P.G. Vice President

cc: ROC





unit 'H', Sec. 13, T20S, R36E EME H-13 leak

NMOCD Case #1R0429

Monitor Well Data Sheet RICE Operating Company

	COMMENTS																
	SULFATE		497	1020	920	622	370	44	90.8	418	358	376	641	358	286	351	
	TOTAL	ATLENES	<0.001	<0.001	<0.001	<0.001	0.001	<0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
mg/L	ETHYL	BENZENE	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
ations are in	TOLUENE		<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
All concentra	BENZENE		<0.001	<0,001	<0,001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
	TDS		5180	5340	5600	4700	4180	3580	751	3510	3900	3890	5520	4880	4760	3620	
	CL		1770	2600	2360	2000	1600	1500	177	1680	1590	1850	2610	1900	1450	1900	
	SAMPLE	DAIE	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	03/30/05	06/21/05	09/16/05	10/19/05	01/18/06	
()	VOLUME	LUKGED	5.25	5.10	5.10	5.04	5.00	5.00	5.00	5.14	5.40	25.00	10.00	12.00	6.00	8.00	
(ga	WELL	VOLUME	1.720	1.710	1.212	1.680	1.600	1.670	1.650	1.712	1.800	1.910	1.950	1.970	2.000	2.000	
()	TOTAL	DEFIN	43.94	43.90	43.91	43.90	43.91	43.90	43.90	44.10	44.10	44.10	44.10	44.10	44.10	44.10	
(fi	DEPTH TO WATER *	WHITE	33.19	33.18	33.20	33.40	33.35	33.41	33.56	33.40	32.85	32.19	31.93	31.81	31.70	31.59	
	# MM		1	1	1	1	1	1	1	1	1	1	1	1	1	1	

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



APPENDIX A

Analytical Reports

Analytical Report

4/08/2005

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Analytical Report

Prepared for:

Tim Reed Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Rice/ EME H-13 Project Number: 2307 Location: Lea County, NM

Lab Order Number: 5C31012

Report Date: 04/08/05

Highlander Environmental Corp.	Project:	Rice/ EME H-13	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number:	2307	Reported:
Midland TX, 79705	Project Manager:	Tim Reed	04/08/05 14:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5C31012-01	Water	03/30/05 11:45	03/31/05 15:00

Highlander Environmental Corp.	Project: Rice/ EME H-13	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2307	Reported:
Midland TX, 79705	Project Manager: Tim Reed	04/08/05 14:12

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5C31012-01) Water									
Benzene	ND	0.00100	mg/L	1	ED50608	04/05/05	04/05/05	EPA 8021B	
Toluene	ND	0.00100	u		n	11	n	п	
Ethylbenzene	ND	0.00100	11	8		N		**	
Xylene (p/m)	ND	0.00100	u	W	"	11	"	14	
Xylene (0)	ND	0.00100	"	"	"	н	"		
		106 %	80-12	0	"	"	"	"	· · · · · · · · · · · · · · · · · · ·
Surrogate: 4-Bromofluorobenzene		85.5 %	80-12	0	"	"	"	"	

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 10

Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed Fax: (432) 682-3946

Reported: 04/08/05 14:12

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5C31012-01) Water									
Total Alkalinity	214	2.00	mg/L	1	ED50709	04/07/05	04/07/05	EPA 310.2M	
Chloride	1850	25.0	11	50	ED50612	04/06/05	04/06/05	EPA 300.0	
Total Dissolved Solids	3890	5.00	n	1	ED50502	04/04/05	04/05/05	EPA 160.1	
Sulfate	376	25.0	11	50	ED50612	04/06/05	04/06/05	EPA 300.0	

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Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed Fax: (432) 682-3946 Reported: 04/08/05 14:12

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5C31012-01) Water									
Calcium	426	1.00	mg/L	100	ED50802	04/06/05	04/07/05	EPA 6010B	
Magnesium	178	0.100	"	м	"	H	11	11	
Potassium	19.2	0.500	"	10	"	11	"	N	
Sodium	980	1.00	"	100	"	11	н	H	

Environmental Lab of Texas

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Highlander Environmental Corp. 1910 N. Big Spring St. Midland TX, 79705		Pro Project Nur Project Man	oject: Rie nber: 23 ager: Tii	ce/ EME H 07 m Reed	-13				Fax: (432) 682-3946 Reported: 04/08/05 14:12		
	Or	ganics by	GC - C	Quality (Control						
		Environm	ental I	Lab of I	exas						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch ED50608 - EPA 5030C (GC)											
Blank (ED50608-BLK1)				Prepared	& Analyz	ed: 04/05/	05				
Benzene	ND	0.00100	mg/L							.	
Toluene	ND	0.00100	"								
Ethylbenzene	ND	0.00100	11								
Xylene (p/m)	ND	0.00100	**								
Xylene (0)	ND	0.00100	"								
Surrogate: a,a,a-Trifluorotoluene	21.6		ug/l	20.0	<u> </u>	108	80-120				
Surrogate: 4-Bromofluorobenzene	17.8		"	20.0		89.0	80-120				
LCS (ED50608-BS1)				Prepared	& Analyz	ed: 04/05/	05				
Benzene	97.0		ug/l	100		97.0	80-120			·	
Toluene	94.8		11	100		94.8	80-120				
Ethylbenzene	96.7		41	100		96.7	80-120				
Xylene (p/m)	193		11	200		96.5	80-120				
Xylene (o)	101		n	100		101	80-120				
Surrogate: a,a,a-Trifluorotoluene	23.8		"	20.0		119	80-120				
Surrogate: 4-Bromofluorobenzene	19.4		"	20.0		97.0	80-120				
Calibration Check (ED50608-CCV1)				Prepared	& Analyz	ed: 04/05/	05				
Benzene	97.1		ug/l	100		97.1	80-120	- <i>v</i> -			
Toluene	93.7		"	100		93.7	80-120				
Ethylbenzene	93.6			100		93.6	80-120				
Xylene (p/m)	192		"	200		96.0	80-120				
Xylene (o)	98.2		11	100		98.2	80-120				
Surrogate: a,a,a-Trifluorotoluene	22.5		"	20.0		112	80-120	·			
Surrogate: 4-Bromofluorobenzene	19.4		"	20.0		97.0	80-120				
Matrix Spike (ED50608-MS1)	So	ource: 5D010	05-04	Prepared	& Analyz	ed: 04/05/	05				
Benzene	102		ug/l	100	ND	102	80-120		······		
Toluene	99.4			100	ND	99.4	80-120				
Ethylbenzene	99.2		n	100	ND	99.2	80-120				
Xylene (p/m)	202		н	200	ND	101	80-120				
Xylene (o)	101		"	100	ND	101	80-120				
Surrogate: a,a,a-Trifluorotoluene	22.9	· · · · · · · · · · · · · · · · · · ·	"	20.0		114	80-120				
Surrogate: 4-Bromofluorobenzene	18.9		"	20.0		94.5	80-120				

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Surrogate: 4-Bromofluorobenzene

Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed

Fax: (432) 682-3946

Reported: 04/08/05 14:12

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 ED50608 - EPA 5030C (GC)									
Matrix Spike Dup (ED50608-MSD1)	Sou	rce: 5D01005-04	Prepared	& Analyze	ed: 04/05/	05			
Benzene	98.8	ug/l	100	ND	98.8	80-120	3.19	20	
Toluene	96.0	11	100	ND	96.0	80-120	3.48	20	
Ethylbenzene	94.3	n	100	ND	94.3	80-120	5.06	20	
Xylene (p/m)	199	*	200	ND	99.5	80-120	1.50	20	
Xylene (o)	95.3	H	100	ND	95.3	80-120	5.81	20	
Surrogate: a,a,a-Trifluorotoluene	22.8	"	20.0		114	80-120			
Concentra d D and analysis	20 6	"	20.0		102	00 100			

20.0

103

80-120

20.6

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Highlander Environmental Corp.		Pro	oject: Ri	ce/ EME H-	-13				Fax: (432)	682-3946
1910 N. Big Spring St.		Project Nur	nber: 23	07				Reported:		
Midland TX, 79705		Project Man	ager: Ti	m Reed				04/08/05 14:12		
General Chemi	stry Param	eters by	EPA /	Standar	d Meth	ods - Q	Quality (Contro	1	
	E	nvironm	ental l	Lab of T	exas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED50502 - General Preparatio	on (WetChem)								
Blank (ED50502-BLK1)				Prepared:	04/04/05	Analyzed	l: 04/05/05			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (ED50502-DUP1)	Sou	rce: 5C3100	8-01	Prepared:	04/04/05	Analyzed	1: 04/05/05			
Total Dissolved Solids	1970	5.00	mg/L		2020			2.51	20	
Batch ED50612 - General Preparatio	on (WetChem)			·					<u></u>
Blank (ED50612-BLK1)	- <u> </u>		<u> </u>	Prepared	& Analyze	ed: 04/06/	05			
Chloride	ND	0.500	mg/Ľ							
Sulfate	ND	0.500	n							
LCS (ED50612-BS1)				Prepared	& Analyza	ed: 04/06/	05			_
Chloride	10.9		mg/L	10.0		109	80-120			
Sulfate	9.46		"	10.0		94.6	80-120			
Calibration Check (ED50612-CCV1)				Prepared	& Analyze	ed: 04/06/	05			
Chloride	10.6		mg/L	10.0		106	80-120			
Sulfate	9.55		ч	10.0		95.5	80-120			
Duplicate (ED50612-DUP1)	Sou	rce: 5C310(08-01	Prepared	& Analyze	ed: 04/06/	05			
Chloride	862	12.5	mg/L		873			1.27	20	
Sulfate	493	12.5	u		502			1.81	20	
Batch ED50709 - General Preparatio	on (WetChem)	<u>.</u>			· · · · · · · · · · · · · · · · · · ·				_
Blank (ED50709-BLK1)				Prepared	& Analyz	ed: 04/07/	05			
Total Alkalinity	ND	2.00	mg/L							

Environmental Lab of Texas

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Highlander Environmental Corp.	Project: Rice/ EME H-13	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2307	Reported:
Midland TX, 79705	Project Manager: Tim Reed	04/08/05 14:12

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 ED50709 - General Preparatio	n (WetChen	ı)								
Calibration Check (ED50709-CCV1)				Prepared	& Analyze	d: 04/07/	05			
Bicarbonate Alkalinity	231		mg/L	200		116	80-120			
Duplicate (ED50709-DUP1)	So	arce: 5C300()9-01	Prepared	& Analyze	ed: 04/07/	05			
Total Alkalinity	186	2.00	mg/L	· • · · · · · · · · · · · · · · · · · ·	194			4.21	20	

Environmental Lab of Texas

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Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed Fax: (432) 682-3946

Reported: 04/08/05 14:12

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 ED50802 - 6010B/No Digestion										
Blank (ED50802-BLK1)				Prepared:	04/06/05	Analyzed	: 04/07/05			
Calcium	ND	0.0100	mg/L							
Magnesium	ND	0.00100	••							
Potassium	ND	0.0500	"							
Sodium	ND	0.0100	"							
Calibration Check (ED50802-CCV1)				Prepared:	04/06/05	Analyzed	: 04/07/05			
Calcium	1.96		mg/L	2.00		98.0	85-115			
Magnesium	1.99		**	2.00		99.5	85-115			
Potassium	1.71		n	2.00		85.5	85-115			
Sodium	1.83		"	2.00		91.5	85-115			
Duplicate (ED50802-DUP1)	So	urce: 5C3100	8-01	Prepared:	04/06/05	Analyzed	: 04/07/05			
Calcium	214	1.00	mg/L		225			5.01	20	
Magnesium	74.7	0.0200	18		77.8			4.07	20	
Potassium	11.4	0.500	*1		13.2			14.6	20	
Sodium	376	1.00	11		421			11.3	20	

Environmental Lab of Texas

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Highlan 1910 N. Midland	der Environmental Corp. Big Spring St. 1 TX, 79705	Project: Project Number: Project Manager:	Rice/ EME H-13 2307 Tim Reed	Fax: (432) 682-3946 Reported: 04/08/05 14:12
		Notes and De	efinitions	
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above	ve the reporting limit		
NR	Not Reported			
dry	Sample results reported on a dry weight	ght basis		

- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Kaland K-Julik Report Approved By:

4-12-05 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 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

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Analysis Request and Chain of Custody	HIGHLANDER ENVIRONMENTAL C 1910 N. Big Spring St.	(432) 682-4559 Muulauu, 15445 19100 Fax (43	ENT NAME: RILC SITE MANAGER: TIM Recut B	UECT NO.: 2307 PROJECT NAME: EME H-13	I.D. DATE TIME IX CRAATY IN MOMENTE DENTIFICATION OF CRAATE DENTIFICATION	2 313065 11:45 W W -1 3					Rurguan (Signature) Date: 3-3 1-9 RECEIVED BY: (Signature)	iquisiis BY: (Signature) Date: RECEIVED BY: (Signature) Time:	rquished Br: (Signature) Date:RECENVED BY: (Signature)	WING LABORATORY: ENVYON MATRY 19 6 (14/9) RECEIVED BY: (SIGNALDRY) U. C. L	Delt 35 d States 1X ZIP: DATE 3-3(-C)S THE	LE CONDITTON THEN RECEIVED: LATER. C. Tree. A-AF 50-Solid
Record	IRP.	?) 682-3946	PRESERVATIVE METHOD	(11/2	NONE ICE HNO3 HCT	X X					Date: Time:	Date: Time:	Date:	Q.	1500	REMARKS: [-L
AGE: ANALYSIS REQUEST (Circle or Shenify Wethor		99 1 24 -50 24 -50 24 -50	89/0128 990/98 89 Cq 89 Cq 89 Cq 89 Cq 80 Cq 80 Cq	7602 7603 7604 7604 7604 7608 7617 7608 7617 7608 7608 7608 7608 7608 7608 7608 760	ьеңг 908/ ьСВ,* 908/ ССЛК АОГ ССЛК АОГ ЦСГЬ А090 ЦСГЬ 7000 ЦСГЬ 7000 ЦСГЬ 7000 ЦСГЬ 7000 КСКУ 7000 БСКУ 7000 БСКУ 7000 АЦСС 2000 АЦСС 2000	X					- SAMPLED BY: (Print & Sign) - Juay Taylor a July June)	- SAMPLE SHIPPED BY: (Circle) FEDER BUS I	HAND DELIVERED UPS	HIGHLANDER CONTACT PERSON:	1/m // 200	DPE each set
d No.)		epi	ر (کمان در کمان در کما در کمان در کمان در کمان در کمان	nter (102) 100- 100- 100- 100- 100- 100- 100- 100	BOD, TSS, J Gemme Sp Alphe Bete PLM (Arbes	X					Date: 3151/0 Time: 11:10	∳ тивич	OTHER:	RUSH Charges	Authorized: Yos No	

SX

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

r FANI. IMILAND Client: 3:10 Date/Time: Order #: 503.01 Initials:

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	1.5	CI
Shipping container/cooler in good condition?	Xe	No I		
Custody Seals intact on shipping container/cooler?	Xe	No 1	Not present	-1
Custody Seals intact on sample bottles?		Na I	Not present	
Chain of custody present?	Ø	No 1		1
Sample Instructions complete on Chain of Custody?	1	No 1		1
Chain of Custody signed when relinquished and received?	(PED)	No		
Chain of custody agrees with sample label(s)	YED	No		1
Container labels legible and intact?		No 1		
Sample Matrix and procerties same as on chain of custody?	KEDI	No I		
Samples in proper container/bcttle?	1031	No i		
Samples properly preserved?	(P)	Nc !		!
Sample bottles intact?	100	No		i
Preservations documented on Chain of Custody?		No		
Containers documented on Chain of Custody?	(PE)	No: I		
Sufficient sample amount for indicated test?	1 (PES)	Nc -		
All samples received within sufficient hold time?		No 1		
VOC samples have zero headspace?	1 (13)	No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:

Analytical Report

6/28/2005



Analytical Report

Prepared for:

Tim Reed Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

> Project: Rice/ EME H-13 Project Number: 2307 Location: None Given

Lab Order Number: 5F22003

Report Date: 06/28/05

Highlander Environmental Corp.	Project: Rice/ EME H-13	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2307	Reported:
Midland TX, 79705	Project Manager: Tim Reed	06/28/05 16:46

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5F22003-01	Water	06/21/05 14:00	06/22/05 09:00

Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:

06/28/05 16:46

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting	Units	Dilution	Devel	Duranted	Analyzad	Marked	Notes
MW 1 (5E22003 01) Water				Dilution	Baich	Prepared	Analyzed	Method	Notes
Benzene	ND	0.00100	mg/L	1	EF52711	06/27/05	06/27/05	EPA 8021B	
Тоluene	ND	0.00100	"			"	"	"	
Ethylbenzene	ND	0.00100			47	۳		"	
Xylene (p/m)	ND	0.00100			**		"		
Xylene (o)	ND	0.00100	**				"		
Surrogate: a,a,a-Trifluorotoluene		106 %	80-12	0		"	<i>n</i>	"	
Surrogate: 4-Bromofluorobenzene		81.5 %	80-12	0	"	"	"	"	

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.

Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:

06/28/05 16:46

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5F22003-01) Water									
Total Alkalinity	174	2.00	mg/L	1	EF52213	06/22/05	06/22/05	EPA 310.2M	
Chloride	2610	50.0		100	EF52301	06/22/05	06/22/05	EPA 300.0	
Total Dissolved Solids	5520	10.0		2	EF52212	06/22/05	06/23/05	EPA 160.1	
Sulfate	641	50.0		100	EF52301	06/22/05	06/22/05	EPA 300.0	

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 10

Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed Fax: (432) 682-3946

Reported:

06/28/05 16:46

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5F22003-01) Water									
Całcium	487	0.500	mg/L	50	EF52306	06/23/05	06/23/05	EPA 6010B	
Magnesium	206	0.0500	•	"	"	"	"		
Potassium	32.3	0.500		10				"	
Sodium	990	2.00	"	200		"	"	"	

Environmental Lab of Texas

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

Page 4 of 10

Highlander Environmental Corp.		Pt	oject: Ric	e/ EMÉ H-1	3				Fax: (432)) 682-3946
1910 N. Big Spring St.		Project Nu	mber: 230	07					Repo	orted:
Midland TX, 79705		Project Ma	nager: Tin	n Reed					06/28/0)5 16:46
	0	rganics by	GC - Q	uality Co	ontrol					
		Environm	iental L	ab of Te	xas					
	<u> </u>	Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF52711 - EPA 5030C (GC)									·-··	
Blank (EF52711-BLK1)				Prepared &	k Analyzed:	06/27/05				
Benzene	ND	0.00100	mg/L	• •					· ··· • ·	
Toluene	ND	0.00100								
Ethylbenzene	ND	0.00100								
Xylene (p/m)	ND	0.00100								
Xylene (0)	ND	0.00100								
Surrogate: a,a,a-Trifluoroioluene	21.7		ug l	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	19.2		"	20.0		96.0	80-120			
LCS (EF52711-BS1)				Prepared &	2 Analyzed	06/27/05				
Benzene	104		ug/l	100		104	80-120			
Toluene	105		"	100		105	80-120			
Ethylbenzene	105			100		105	80-120			
Xylene (p/m)	206		"	200		103	80-120			
Xylene (0)	97,9			100		97.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	22.2			20.0		111	80-120		···	
Surrogate: 4-Bromofluorobenzene	23.8		"	20.0		119	80-120			
LCS Dup (EF52711-BSD1)				Prepared &	& Analyzed	06/27/05				
Benzene	104		ug/l	100		104	80-120	0.00	20	
Toluene	106			100		106	80-120	0.948	20	
Ethylbenzene	98.9			100		98.9	80-120	5.98	20	
Xylene (p/m)	207			200		104	80-120	0.966	20	
Xylene (o)	93.7			100		93.7	80-120	4.38	20	
Surrogate: a,a,a-Trifluorotoluene	23.2		"	20.0		116	80-120			
Surrogale: 4-Bromofluorobenzene	21.4		"	20.0		107	80-120			
Calibration Check (EF52711-CCV1)				Prepared:	06/27/05 A	.nalyzed: 06	5/28/05			
Benzene	96.9		ug/l	100		96.9	80-120			
Toluene	98.6			100		98.6	80-120			
Ethylbenzene	92.8		*	100		92.8	80-120			
Xylene (p/m)	193		•	200		96.5	80-120			
Xylene (0)	87.5			100		87.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.4			20.0		107	80-120		• •• • •••	
Sutrogate: 4-Bromofluorobenzene	20.0		"	20.0		100	80-120			

Environmental Lab of Texas

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Page 5 of 10

Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed Fax: (432) 682-3946

Reported:

06/28/05 16:46

Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting				%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EF52711 - EPA 5030C (GC)			· · · · · · · · · · · · · · · · · · ·						
Matrix Spike (EF52711-MS1)	Sour	e: 5F27009-02	Prepared: ()6/27/05 A	nalyzed: 06	/28/05			
Benzene	92.7	ug/l	100	ND	92.7	80-120			
Toluene	91.7	*	100	ND	91.7	80-120			
Ethylbenzene	87.5		100	ND	87.5	80-120			
Xylene (p/m)	177	•	200	ND	88.5	80-120			
Xylene (a)	85.0	**	100	ND	85.0	80-120			
Surrogale: a,a,a-Trifluorotoluene	20.0	- i	20.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	22.0	"	20.0		110	80-120			

Environmental Lab of Texas

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Page 6 of 10

Highlander Environmental Corp.		Pr	oject: Ri	ce/ EME H-I	3				Fax: (432)	682-394
1910 N. Big Spring St.		Project Nu	mber: 23	07					Repo	rted:
Midland TX, 79705		Project Mai	nager: Ti	m Reed					06/28/0	5 16:46
General G	Chemistry Para	meters by	EPA/	Standard	l Methoo	ls - Qua	lity Con	trol		
		Environm	ental I	Lab of Te	xas					
	D b	Reporting		Spike	Source	4/250	%REC		RPD	
Analyte	Kesult	Limit	Units	Level	Result	%REC	Limits	KPD	Limit	Notes
Batch EF52212 - Filtration Preparatio	n	• .					·· , ,			
Blank (EF52212-BLK1)				Prepared: (06/22/05 A	nalyzed: 06	/23/05			
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EF52212-DUP1)	Sour	ce: 5F16004-	04	Prepared: (06/22/05 A	nalyzed: 06	/23/05			
Fotal Dissolved Solids	277	5,00	mg/L		276			0.362	20	
Blank (EF52213-BLK1)	ND	2.00		Prepared &	Analyzed:	06/22/05				
i otali Aikannity	ND	2.00	mg/L							
Duplicate (EF52213-DUP1)	Sour	ce: 5F16009-	01	Prepared &	Analyzed:	06/22/05				
Total Alkalinity	153	2.00	mg/L		153			0.00	20	
Reference (EF52213-SRM1)				Prepared &	Analyzed:	06/22/05				
Bicarbonate Alkalinity	230		mg/L	200	** * *****	115	80-120			•••••
Batch EF52301 - General Preparation	(WetChem)									
Blank (EF52301-BLK1)				Prepared &	Analyzed:	06/22/05				
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							
LCS (EF52301-BS1)				Prepared &	2 Analyzed:	06/22/05				
Chloride	11.8		mg/L	10.0		118	80-120			
Sulfate	11.1			10.0		111	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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Highlander Environmental Corp.Project:Rice/ EME H-13Fax: (432) 682-39461910 N. Big Spring St.Project Number:2307Reported:Midland TX, 79705Project Manager:Tim Reed06/28/05 16:46

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 EF52301 - General Preparation (V	VetChem)									
Calibration Check (EF52301-CCV1)				Prepared &	Analyzed:	06/22/05				
Chloride	10.7		mg/L	10.0		107	80-120			
Sulfate	10.0		"	10.0		100	80-120			
Duplicate (EF52301-DUP1)	Sour	ce: 5F21001-	01	Prepared &	Analyzed:	06/22/05				
Sulfate	25.7	2.50	mg/L		28.1			8.92	20	
Chloride	17.1	2.50	"		17.0			0.587	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.

Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:

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06/28/05 16:46

Total Metals by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF52306 - 6010B/No Digestion										
Blank (EF52306-BLK1)				Prepared 8	Analyzed:	06/23/05				
Calcium	ND	0.0100	mg/L	· · ····		·				
Magnesium	ND	0.00100	н							
Potassium	ND	0.0500	n							
Sodium	ND	0.0100	"							
Calibration Check (EF52306-CCV1)				Prepared 8	k Analyzed:	06/23/05				
Calcium	1.79		mg/L	2.00		89.5	85-115			
Magnesium	2.07			2.00		104	85-115			
Potassium	1.76			2.00		88.0	85-115			
Sodium	1.91		"	2.00		95.5	85-115			
Duplicate (EF52306-DUP1)	Sou	rce: 5F21017-	01	Prepared &	k Analyzed:	06/23/05				
Calcium	58.8	0.100	mg/L		57.8	•		1.72	20	
Magnesium	22.8	0.0100			23.0			0.873	20	
Potassium	18,3	0.500	"		19.2			4.80	20	
Sodium	150	0,500			155			3.28	20	

Environmental Lab of Texas

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Highlander Environmental Corp.			Rice/ EME H-13	Fax: (432) 682-3946		
1910 N. Big	Spring St.	Project Number:	2307	Reported:		
Midland TX	, 79705	Project Manager:	Tim Reed	06/28/05 16:46		
		Notes and De	finitions			
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 Juli

6/28/2005

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.

Date:

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Environmental Lab of Texas

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

Client: <u>H</u>	ighlander	
Date/Time:	6/22/05	9:10
Order #:	5F220	03
Initials:	CK	

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	- 4.0 CI
Shipping container/cooler in good condition?	123	No	
Custody Seals intact on shipping container/cocler?	163	No	Not present
Custody Seals intact on sample bottles?	1 223,	No	Not present
Chain of custody present?	(Pes)	No	
Sample Instructions complete on Chain of Custcdy?	1 des	No	
Chain of Custody signed when relinquished and received?	1 CES 1	No	
Chain of custody agrees with sample label(s)	yes)	No	
Container labels legible and intact?	1 2501	No I	
Sample Matrix and properties same as on chain of custody?	(Yes)	No i	
Samples in proper container/bottle?	1 (23)	No	
Samples properly preserved?	(Cas)	No	
Sample bottles intact?	87330	No	
Preservations documented on Chain of Custody?	1 YEE)	No	
Containers documented on Chain of Custody?	I CFes I	No	
Sufficient sample amount for indicated test?	Fes	No	
All samples received within sufficient hold time?	(jes)	No	
VOC samples have zero headspace?	1 Pest 1	No	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:

Analytical Report

9/28/2005



Analytical Report

Prepared for:

Tim Reed Highlander Environmental Corp. 1910 N. Big Spring St. Midland, TX 79705

Project: Rice/ EME H-13 Project Number: 2307 Location: Lea County, NM

Lab Order Number: 5119007

Report Date: 09/28/05

Highlander Environmental Corp.	Project: R	Rice/ EME H-13	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2	307	Reported:
Midland TX, 79705	Project Manager: T	im Reed	09/28/05 15:18

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5119007-01	Water	09/16/05 09:30	09/16/05 15:45

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

	Organics by GC							
Midland TX, 79705	Project Manager: Tim Reed	09/28/05 15:18						
1910 N. Big Spring St.	Project Number: 2307	Reported:						
Highlander Environmental Corp.	Project: Rice/ EME H-13	Fax: (432) 682-3946						

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5119007-01) Water									
Benzene	ND	0.00100	mg/L	1	EI51910	09/21/05	09/22/05	EPA 8021B	
Toluene	ND	0.00100	n		"	"	"	"	
Ethylbenzene	ND	0.00100		11	17	"	"		
Xylene (p/m)	ND	0.00100		*	"	п	"		
Xylene (o)	ND	0.00100	"	11	"	"	"	n	
Surrogate: a,a,a-Trifluorotoluene		90.0 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-12	0	"	"	"	"	

Environmental Lab of Texas

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Project: Rice/ EME H-13 Project Number: 2307 Project Manager: Tim Reed

Fax: (432) 682-3946 **Reported:**

09/28/05 15:18

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5119007-01) Water									
Total Alkalinity	216	2.00	mg/L	1	EI52214	09/21/05	09/21/05	EPA 310.2M	
Chloride	1900	25.0	"	50	EI52001	09/19/05	09/20/05	EPA 300.0	
pH	6.86		pH Units	1	E152004	09/19/05	09/19/05	EPA 150.1	O-04
Total Dissolved Solids	4880	5.00	mg/L	"	EI52607	09/21/05	09/22/05	EPA 160.1	
Sulfate	358	25.0	"	50	EI52001	09/19/05	09/20/05	EPA 300.0	

Environmental Lab of Texas

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Highlander Environmental Corp.	Project: Rice/ EME H-13	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2307	Reported:
Midland TX, 79705	Project Manager: Tim Reed	09/28/05 15:18

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5119007-01) Water				2.34100					
Calcium	365	2.00	mg/L	200	EI52709	09/27/05	09/27/05	EPA 6010B	
Magnesium	153	0.0500	n	50		"	H	"	
Potassium	18.9	0.500	"	10	"	n	n	"	
Sodium	687	2.00	"	200	"	*	"	"	

Environmental Lab of Texas

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Highlander Environmental Corp.		Pr	oject: Ric	e/ EME H-1	3				Fax: (432)	682-3946
1910 N. Big Spring St.		Project Nu	mber: 230	07					Repo	rted:
[•] Midland TX, 79705		Project Mai	nager: Tir	n Reed					09/28/0	5 15:18
	0	rganics by	GC - Q	uality Co	ontrol					
		Environm	ental L	ab of Tex	kas					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI51910 - EPA 5030C (GC)										
Blank (EI51910-BLK1)				Prepared: ()9/19/05 A	nalyzed: 09	/22/05			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (0)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.7		"	40.0		89.2	80-120			
LCS (EI51910-BS1)	BS1) Prepared: 09/19/05 Analyzed: 09/21/05									
Benzene	45.3		ug/l	50.0		90.6	80-120			
Toluene	42.9		"	50.0		85.8	80-120			
Ethylbenzene	48.3		"	50.0		96.6	80-120			
Xylene (p/m)	89.1		11	100		89.1	80-120			
Xylene (0)	54.6		"	50.0		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.7		"	40.0		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	46.0		"	40.0		115	80-120			
Calibration Check (EI51910-CCV1)				Prepared: (09/19/05 A	nalyzed: 09)/22/05			
Benzene	47.1		ug/l	50.0		94.2	80-120			
Toluene	44.9		"	50.0		89.8	80-120			
Ethylbenzene	49.1		"	50.0		98.2	80-120			
Xylene (p/m)	89.8		"	100		89.8	80-120			
Xylene (o)	52.6		"	50.0		105	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.7		"	40.0		94.2	0-200			
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92.2	0-200			
Matrix Spike (EI51910-MS1)	Sou	ırce: 5I15012-	34	Prepared: (09/19/05 A	nalyzed: 09	0/22/05			
Benzene	41.2		ug/l	50.0	ND	82.4	80-120			
Toluene	40.3		"	50.0	ND	80.6	80-120			
Ethylbenzene	40.0		"	50.0	ND	80.0	80-120			
Xylene (p/m)	80.7		"	100	ND	80.7	80-120			
Xylene (o)	40.6		"	50.0	ND	81.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.7		"	40,0		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	34.6		"	40.0		86.5	80-120			

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Highlander Environmental Corp.	Project: Rice/ EME H-13	Fax: (432) 682-3946
1910 N. Big Spring St.	Project Number: 2307	Reported:
Midland TX, 79705	Project Manager: Tim Reed	09/28/05 15:18

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 EI51910 - EPA 5030C (GC)									
Matrix Spike Dup (EI51910-MSD1)	Sourc	e: 5115012-34	Prepared: (09/19/05 A	nalyzed: 09	0/22/05			
Benzene	42.6	ug/l	50.0	ND	85.2	80-120	3.34	20	
Toluene	40.0	"	50.0	ND	80.0	80-120	0.747	20	
Ethylbenzene	41.6	n	50.0	ND	83.2	80-120	3.92	20	
Xylene (p/m)	81.2	**	100	ND	81.2	80-120	0.618	20	
Xylene (0)	42.9	"	50.0	ND	85.8	80-120	5.51	20	
Surrogate: a,a,a-Trifluorotoluene	35.1		40.0		87.8	80-120			

40.0

89.0

80-120

35.6

Environmental Lab of Texas

Surrogate: 4-Bromofluorobenzene

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Highlander Environmental Corp.		Þr	oiect Ric	e/ EME H-1.	3				Fax: (432)	682-3946
1910 N. Big Spring St.		Project Nu	mber: 230	7	-				Reno	rted
Midland TX, 79705		Project Mar	nager: Tim	Reed					09/28/0	5 15:18
General Cl	nemistry Para	meters by Environm	EPA / S ental L	Standard ab of Tey	Method	ls - Qua	lity Cont	rol		
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI52001 - General Preparation (V	VetChem)									
Blank (EI52001-BLK1)				Prepared: (09/19/05 A	nalyzed: 09	9/20/05			
Chloride	ND	0,500	mg/L							
Sulfate	ND	0,500								
LCS (E152001-BS1)				Prepared: (09/19/05 A	nalyzed: 09	9/20/05			
Chloride	8.10		mg/L	10.0		81.0	80-120			
Sulfate	8.85		**	10.0		88.5	80-120			
Calibration Check (EI52001-CCV1)				Prepared: (09/19/05 A	nalyzed: 09	9/20/05			
Chloride	10.2		mg/L	10.0		102	80-120			
Sulfate	10.2		**	10.0		102	80-120			
Duplicate (EI52001-DUP1)	Sour	ce: 5I19003-6	91	Prepared: (09/19/05 A	nalyzed: 09	9/20/05			
Chloride	154	5,00	mg/L		151			1.97	20	
Sulfate	134	5.00	ч		133			0.749	20	
Batch E152004 - General Preparation (V	VetChem)									
Calibration Check (EI52004-CCV1)				Prepared &	k Analyzed:	09/19/05				
pH	6.96		pH Units	7.00		99.4	97.5-102.5			O -/
Duplicate (EI52004-DUP1)	Sour	ce: 5119003-(01	Prepared &	& Analyzed:	09/19/05				
pH	7.27		pH Units		7.32			0.685	2.5	0-
Batch EI52214 - General Preparation (V	WetChem)									
Blank (EI52214-BLK1)				Prepared &	& Analyzed:	09/21/05				
Total Alkalinity	ND	2.00	mg/l	•	· · · ·					

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Highlander Environmental Corp.		Pro	oject: Ri	ce/ EME H-1	3				Fax: (432)	682-3946
1910 N. Big Spring St.		Project Nur	nber: 23	07					Repo	rted:
Midland TX, 79705		Project Man	ager: Ti	n Reed					09/28/0	5 15:18
General C	hemistry Paran	neters by	EPA /	Standard	Method	ds - Qua	lity Con	trol		
	F	Environm	ental I	ab of Te	xas					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI52214 - General Preparation (V	VetChem)									
Calibration Check (EI52214-CCV1)				Prepared &	Analyzed:	09/21/05				
Bicarbonate Alkalinity	229		mg/L	200		114	80-120			
Duplicate (EI52214-DUP1)	Sourc	e: 5119006-0	1	Prepared &	Analyzed:	: 09/21/05				
Fotal Alkalinity	174	2.00	mg/L		173			0.576	20	
Batch EI52607 - General Preparation (V	VetChem)									
Blank (EI52607-BLK1)				Prepared &	k Analyzed	: 09/22/05				
Total Dissolved Solids	ND	5.00	mg/L							
Duplicate (EI52607-DUP1)	Sourc	e: 5119003-0	1	Prepared &	k Analyzed	: 09/22/05				
Total Dissolved Solids	812	5.00	mg/L		840			3.39	5	
Duplicate (EI52607-DUP2)	Sourc	e: 5119033-0	8	Prepared &	Analyzed	: 09/22/05				
Total Dissolved Solids	22100	5.00	mg/L		22400			1.35	5	

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	Highlander Environmental Corp.	Project: Rice/ EME H-13	Fax: (432) 682-3946
Į	1910 N. Big Spring St.	Project Number: 2307	Reported:
	Midland TX, 79705	Project Manager: Tim Reed	09/28/05 15:18

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 EI52709 - 6010B/No Digestion			0.1110							
Blank (EI52709-BLK1)				Prepared &	k Analyzed	: 09/27/05				
Calcium	ND	0.0100	mg/L					- 41		
Magnesium	ND	0.00100	"							
Potassium	ND	0,0500	n							
Sodium	ND	0.0100	n							
Calibration Check (EI52709-CCV1)				Prepared 8	k Analyzed	: 09/27/05				
Calcium	2.02		mg/L	2.00		101	85-115			· ·
Magnesium	1.83		"	2.00		91.5	85-115			
Potassium	2.08		"	2.00		104	85-115			
Sodium	1.77		"	2.00		88.5	85-115			
Duplicate (EI52709-DUP1)	Sou	rce: 5119003-	01	Prepared &	& Analyzed	: 09/27/05				
Calcium	78.0	0,500	mg/L		80.2			2.78	20	
Magnesium	32.2	0.0100	"		32.6			1.23	20	
Potassium	8.07	0.250			8.08			0.124	20	
Sodium	88.9	0,500	11		87.7			1.36	20	

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Highland 1910 N. Midland	der Environmental Corp. Big Spring St. TX, 79705	Project: Project Number: Project Manager:	Rice/ EME H-13 2307 Tim Reed	Fax: (432) 682-3946 Reported: 09/28/05 15:18
		Notes and De	finitions	
O-04	This sample was analyzed outside the	EPA recommended holding time.		
DET	Analyte DETECTED			
ND	Analyte NOT DETECTED at or above the	e reporting limit		
NR	Not Reported			
dry	Sample results reported on a dry weight b	asis		

- RPD Relative Percent Difference
- LCS Laboratory Control Spike
- MS Matrix Spike
- Dup Duplicate

Report Approved By:

Raland K Just Date:

9/28/2005

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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nd Chain of Custody Record	NVIKUNMENTAL CORF. Big Spring St.	1, Texas 79705 Fax (432) 682-3946	SITE MANAGER: TIM Reed By PRESERVATIVE	1908 1917 H - 13 1917 H - 13	LE COUNTY IN THE ALB	-1 3 M X X X					7/1/6/00 RECERTED BY: (Eignature) Data: Source	RECEIVED BY: (Signature) Date: 24MF	RECEIVED BY: (Signature) Date:	HECHTREN PY, (Stendstype) (CO)	ATER CARD A-AT SD-Solid REMARKS
Analvsis Request an	HIGHLANDEK EI 1910 N.	Midland, Midland,	LENT NAME: RIC	ROJECT NO.: 2307 PROJECT NAME:	LB LD. DATE THE RIX ON M. COMM.	01 916105 9:30 W N MW-					1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Linguisten BT: (Signature) Date:	INQUISHED BY: (Signature) Data:Data:	CERVIC LABORATORY: ELT TUDE: DRESS: ALLS	NIACT: LEAVEN WHEN RECEIVED: MA

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

Client: <u>Hialignaer</u>
Date/Time:9/14/053:45
Order #: <u>ST_19007</u>
Initials:

Sample Receipt Checklist

Temperature of container/cocler?	I Yes No	<u> 3.0 C</u>
Shipping container/cooler in good condition?	Yes No	
Custody Seals intact on shipping container/cooler?	XES 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)	tes No	
Container labels legible and intact?	YES NO	
Sample Matrix and properties same as on chain of custody?	YES NO	
Samples in proper container/bottle?	I YES NO]
Samples properly preserved?	Yes No	}
Sample bottles intact?	Yes No	
Preservations documented on Chain of Custody?	Yes No	1
Containers documented on Chain of Custody?	YES NO	Į
Sufficient sample amount for indicated test?	I Yes No	
All samples received within sufficient hold time?	YES I NO	}
VOC samples have zero headsoade?	I Yès I No	Not Applicable

Other observations:

Variance Documentation:

Contact Person:	
Regarding:	

__Date/Time: _____Contacted by: _____

Corrective Action Taken:

Analytical Report

10/26/2005



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Analytical Report

Prepared for:

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

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

Lab Order Number: 5J20011

Report Date: 10/26/05

ſ	Rice Operating Co.	Project:	EME H-13 Leak	Fax: (505) 397-1471
	122 W. Taylor	Project Number:	None Given	Reported:
	Hobbs NM, 88240	Project Manager:	Kristin Farris-Pope	10/26/05 17:04

ANALYTICAL REPORT FOR SAMPLES

-

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	
Monitor Well #1	5J20011-01	Water	10/19/05 12:00	10/20/05 09:30	

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

Rice Operating Co.	Project: EME H-13 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	10/26/05 17:04

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting	Units	Dilution	Batch	Prenared	Analyzed	Method	Notes
Monitor Well #1 (5J20011-01) Water				Dianon					
Benzene	ND	0.00100	mg/L	1	EJ52011	10/20/05	10/20/05	EPA 8021B	
Toluene	ND	0.00100		"		**	"	n	
Ethylbenzene	ND	0.00100	. "	"		11	"	"	
Xylene (p/m)	ND	0.00100	"	۳		"	"	11	
Xylene (0)	ND	0.00100	"	"	"	n	н	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-12	0	"	"	"	"	<u> </u>
Surrogate: 4-Bromofluorobenzene		90.8 %	80-12	0	"	"	"	"	

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Rice Operating Co.	Project: EME H-13 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	10/26/05 17:04

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

				and the second s					
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (5J20011-01) Water									
Total Alkalinity	214	2.00	ıng/L	1	EJ52114	10/21/05	10/21/05	EPA 310.2M	
Chloride	1450	25.0	"	50	EJ52110	10/21/05	10/21/05	EPA 300.0	
Total Dissolved Solids	4760	5.00	**	I	EJ52403	10/20/05	10/21/05	EPA 160.1	
Sulfate	286	25.0	"	50	EJ52110	10/21/05	10/21/05	EPA 300.0	

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Rice Operating Co.	Project: EME H-13 Leak	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	Reported:
Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	10/26/05 17:04

Total Metals by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Monitor Well #1 (5J20011-01) Water									
Calcium	361	1.00	mg/L	100	EJ52111	10/21/05	10/21/05	EPA 6010B	
Magnesium	174	0.0500		50	"	11	"	"	
Potassium	19.2	0.500		10		"	п	"	
Sodium	750	1.00	"	100		n	11	"	

Environmental Lab of Texas

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Rice Operating Co. Project: EME H-13 Leak									Fax: (505) 397-1471			
122 W. Taylor	122 W. Taylor Project Number: None Given Hobbs NM, 88240 Project Manager: Kristin Farris-Pope									Reported: 10/26/05 17:04		
Hobbs NM, 88240												
	0	rganics by	GC - Q	uality Co	ontrol							
		Environm	ental L	ab of Tex	as							
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes		
Batch EJ52011 - EPA 5030C (GC)												
Blank (EJ52011-BLK1)				Prepared &	Analyzed	10/20/05						
Benzene	ND	0.00100	mg/L									
Toluene	ND	0.00100	n									
Ethylbenzene	ND	0.00100	"									
Xylene (p/m)	ND	0.00100										
Xylene (0)	ND	0.00100	n									
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 &	Analyzed	: 10/20/05						
Benzene	0.0402	0.00100	mg/L	0.0500		80.4	80-120					
Toluene	0.0490	0.00100	"	0.0500		98.0	80-120					
Ethylbenzene	0.0592	0.00100	"	0.0500		118	80-120					
Xylene (p/m)	0.115	0.00100	n	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		<i>93.2</i>	80-120					
Surrogate: 4-Bromofluorobenzene	39.9		"	40.0		99.8	80-120					
Calibration Check (EJ52011-CCV1)				Prepared: 1	0/20/05 A	.nalyzed: 1	0/24/05					
Benzene	0.0598		mg/L	0.0500		120	80-120					
Toluene	0.0593		"	0.0500		119	80-120					
Ethylbenzene	0.0586		"	0.0500		117	80-120					
Xylene (p/m)	0.113			0.100		113	80-120					
Xylene (0)	0.0584		"	0.0500		117	80-120					
Surrogate: a,a,a-Trifluorotoluene	45.9		ug l	40.0		115	80-120					
Surrogate: 4-Bromofluorohenzene	40.0		"	40.0		100	80-120					
Matrix Spike (EJ52011-MS1)	Sou	Irce: 5J20030-	02	Prepared: 1	10/20/05 A	nalyzed:	0/24/05					
Benzene	0.0578	0.00100.0	mg/L	0.0500	ND	116	80-120					
Toluene	0.0568	0.00100	11	0.0500	ND	114	80-120					
Ethylbenzene	0.0584	0.00100	"	0.0500	ND	117	80-120					
Xylene (p/m)	0.109	0.00100	u	0.100	ND	109	80-120					
Xylene (o)	0.0571	0.00100	"	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					

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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.

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ſ	Rice Operating Co.	Project: EME H-13	Leak	Fax: (505) 397-1471
	122 W. Taylor	Project Number: None Giver	1	Reported:
1	Hobbs NM, 88240	Project Manager: Kristin Farr	is-Pope	10/26/05 17:04

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	rce: 5J20030-(02	Prepared: 1	0/20/05 A	nalyzed: 1	0/24/05		
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	"	0.0500	ND	119	80-120	1.69	20
Xylene (p/m)	0.119	0.00100	11	0.100	ND	119	80-120	8.77	20
Xylene (0)	0.0596	0.00100	п	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-Bromofluorohenzene	40.7		"	40.0		102	80-120		

Environmental Lab of Texas

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Rice Operating Co.	Project: EME H-13 Leak Project Number: None Given Project Manager: Kristin Farris-Pope								Fax: (505) 397-1471 Reported: 10/26/05 17:04	
122 W. Taylor										
Hobbs NM, 88240										
General C	hemistry Parai	neters by	EPA /	Standard	Method	ls - Qual	lity Cont	trol		
]	Environm	ental l	ab of Te	xas					
		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EJ52110 - General Preparation (WetChem)									
Blank (EJ52110-BLK1)				Prepared &	Analyzed:	10/21/05				
Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	**							
LCS (EJ52110-BS1)				Prepared &	k Analyzed:	10/21/05				
Chloride	8.53		mg/L	10.0		85.3	80-120			
Sulfate	8.86		11	10.0		88.6	80-120			
Calibration Check (EJ52110-CCV1)				Prepared &	k Analyzed:	10/21/05				
Chloride	8.88		mg/L	10.0		88.8	80-120			
Sulfate	9,26		μ	10.0		92.6	80-120			
Duplicate (EJ52110-DUP1)	Sour	ce: 5J20007-	01	Prepared &	k Analyzed:	10/21/05				
Chloride	992	12.5	mg/L		978			1.42	20	
Sulfate	355	12.5	"		357			0.562	20	
Batch EJ52114 - General Preparation (WetChem)									
Blank (EJ52114-BLK1)				Prepared 8	k Analyzed:	10/21/05				
Total Alkalinity	ND	2.00	mg/L							
Duplicate (EJ52114-DUP1)	Sour	ce: 5J20006-	01	Prepared 8	2 Analyzed:	10/21/05				
Total Alkalinity	229	2.00	mg/L		230			0.436	20	
Reference (EJ52114-SRM1)				Prepared &	& Analyzed:	10/21/05				
Bicarbonate Alkalinity	229		mg/L	200		114	80-120			

Environmental Lab of Texas

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Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Pr Project Nu Project Mar	oject: EN mber: No nager: Kr	1E H-13 Lea ne Given istin Farris-P	ope				Fax: (505) Repo 10/26/0	397-1471 rted: 5 17:04
(General Chemistry Para	ameters by Environm	EPA / iental L	Standard Jab of Te:	Methoo xas	ls - Qua	lity Cont	trol		
<u> </u>		Reporting		Spike	Source		%REC		RPD	

Total Dissolved Solids	ND	5.00	mg/L				
Duplicate (EJ52403-DUP1)	Source	e: 5J20006-0	01	Prepared: 10/20/05 Analyzed: 10/21/05			
Total Dissolved Solids	732	5.00	mg/L	766	4.54	5	

Environmental Lab of Texas

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	Rice Operating Co.	Project: EME H-13 Leak	Fax: (505) 397-1471
İ	122 W. Taylor	Project Number: None Given	Reported:
	Hobbs NM, 88240	Project Manager: Kristin Farris-Pope	10/26/05 17:04

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 EJ52111 - 6010B/No Digestion

Blank (EJ52111-BLK1)				Prepared & Analyz	zed: 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 & Analyz	zed: 10/21/05				
Calcium	1.94		mg/L	2.00	97.0	85-115			
Magnesium	2.11		н	2.00	106	85-115			
Potassium	1.86		"	2.00	93.0	85-115			
Sodium	1.89		"	2.00	94.5	85-115			
Duplicate (EJ52111-DUP1)	Sourc	ce: 5J20006-(01	Prepared & Analy:	zed: 10/21/05				
Calcium	43.0	0.100	mg/L	43.2	2		0.464	20	
Magnesium	23.8	0.0100		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

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.

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240		Project: Project Number: Project Manager:	EME H-13 Leak None Given Kristin Farris-Pope	Fax: (505) 397-147 Reported: 10/26/05 17:04		
		Notes and De	finitions			
DET	Analyte DETECTED					
ND	Analyte NOT DETECTED at or above the reporting lim	it				
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:

Ciliz D. Kune

10/26/2005

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:

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.

TAT brabnets eluberto2-erg) TAT HRUS CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Project Name and H-13 Lack Spilos PARSS O 1945I Ò ernmeD leto WEON emperature Upon Receipt. 108 Project Loc: LOA COUNTY Semple Containers Intact? aboratory Comments 0009/81209 XEL8 dea(5) selltalovimes 8-3|L[B] and the rate of the rest of th TCL P OFD / ASE / NVS TOTAL Project # ₽0 # Anions (CI, SO4, CO3, HCO3) Of , SM , BM , SO) anothe 9.30 ee. 9001 SOOL MGL08 1.814 Hd. Cither (specify): lio2 Koriesude valoevet-com Q valorent.com eppule Water (205) 631-9310 × Other (Spacify) Fax No: (505) 397-1471 erron *05²H eservative HOPN IOH 'ONH 80) 88240 John son Alo, of Containers (γ) rozanne 000 12:00 belgmed emil Operatives Company Street PVELO Mexico Environmental Lab of Texas I, Ltd. 12600 West 1-20 East Phone: 245:683-1800 Odessa, Texas 79763 Fax: 425:683-1713 Project Manager Kristin Formis Pope 10/19/05 OZ ANNE Received by: belqme2 etsC 1 ar 16:02 3 1110 141 393-9175 0/20/02 Moniton Well # FIELD CODE Krishin city/state/zip: #4-b b 5 . Company Name KILLE 2 Telephone No: 505 287 7 Company Address: Sampler Signatupe 12600 West I-20 East Odessa, Toxas 79763 Special Instructions: (Neico **AB-# (18b** ĺ,

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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 #:	652001
Initials:	CK

Sample Receipt Checklist

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

Other observations:

Variance Documentation:

Contact Person:	Date/Time:	Contacted by:
Regarding:		``````````````````````````````````````
	۳۶,	
Corrective Action Taken:		
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