

AP - 48

# ANNUAL MONITORING REPORT

YEAR(S):

2005



# Highlander Environmental Corp.

Midland, Texas

2006 MAR 21 PM 12 06

CERTIFIED MAIL  
RETURN RECEIPT NO. 7004 2510 0001 1869 1009

March 16, 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, Justis Saltwater Disposal System (SWD) Jct. L-1, Unit L, Section 1, T-25-S, R-37-E, Lea County, New Mexico, NMOCD CASE #1R0423-0 (AP-48)**

Dear Mr. Price:

Highlander Environmental Corp. (Highlander) takes this opportunity to submit the 2005 Annual Summary Report for the Rice Operating Company (ROC), Jct. L-1 site located in the Justis Salt Water Disposal System.

## Background

As part of the RICE Operating Company (ROC) Junction Box Upgrade Workplan, the original Justis L-1 junction box was removed and replaced with a new water tight junction box, located 50 feet south of the old box. Once the junction box was removed, evaluation of the surrounding and subsurface soils was initiated. Delineation was conducted with a backhoe. Chloride testing and PID field screening were performed at regular intervals. The final excavation measured 20 feet x 22 feet x 12 feet deep. PID concentrations were minimal and laboratory confirmed TPH concentrations were well below NMOCD regulatory guidelines. Chloride concentrations, however, did not appear to decline with depth.

On 12/29/2003, a soil boring was placed into the center of the excavation and advanced to a depth of 80' below ground surface, apparently encountering a saturated zone at 75' below ground surface. The borehole was plugged and a 1.5 foot thick clay barrier was placed into the excavation at 6 feet below ground surface. The remainder of the excavation was backfilled with excavated soils. No TPH impact to groundwater was indicated. On February 24, 2004,

ROC submitted a Junction Box Disclosure Form to the NMOCD.

On June 15, 2004, Highlander submitted a work plan for a confirmation borehole and possible monitor well placement at the site. The NMOCD responded with requested revisions to the workplan and on November 3, 2004, Highlander submitted a revised workplan to address NMOCD concerns. The workplan was approved by the NMOCD on November 4, 2004. Highlander supervised the installation of Monitor Well (MW-1) on December 19, 2004. The well was purged and sampled on December 21, 2004. On January 14, 2005, Rice submitted a Notification of Groundwater Impact to the NMOCD. Groundwater has been sampled and analyzed on a quarterly basis. Traces of benzene and ethylbenzene found in the original sampling have not been evident in subsequent sampling events.

### **Stage I Abatement Plan**

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.

### **Monitor Well Sampling**

The site monitor well (MW-1) was sampled on March 29, June 16, September 15 and December 5, 2005 (Quarterly). 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.

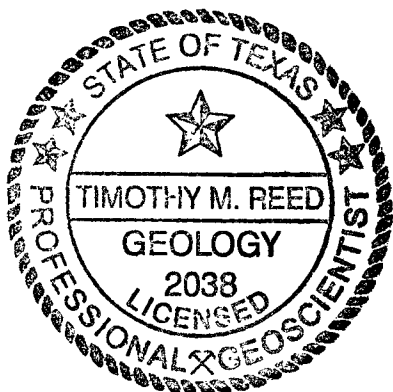


### Monitor Well Sample Results

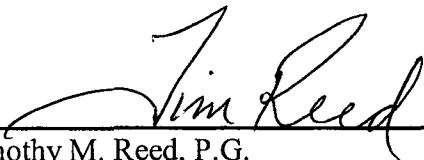
There were no BTEX constituents at or above the New Mexico Water Quality Control Commission (WQCC) standards. Chloride and total dissolved solid (TDS) concentrations from monitor well MW-1 have been declining since the original sampling (12/21/04) to near the WQCC standards of 250 mg/L (chloride) and 1000 mg/L (TDS). The chloride concentrations have declined from 1060 mg/L to 390 mg/L, and the TDS concentrations have declined from 2620 mg/L to 1410 mg/L. Cumulative analytical data is summarized in the Table Section of this report.

### Conclusions and Recommendations

1. In 2005, there were no BTEX constituents at or above the New Mexico Water Quality Control Commission (WQCC) standards.
2. Chloride and total dissolved solid (TDS) concentrations from monitor well MW-1 have been declining since the original sampling (12/21/04) to near the WQCC standards of 250 mg/L (chloride) and 1000 mg/L (TDS). The chloride concentrations have declined from 1060 mg/L to 390 mg/L, and the TDS concentrations have declined from 2620 mg/L to 1410 mg/L.
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.

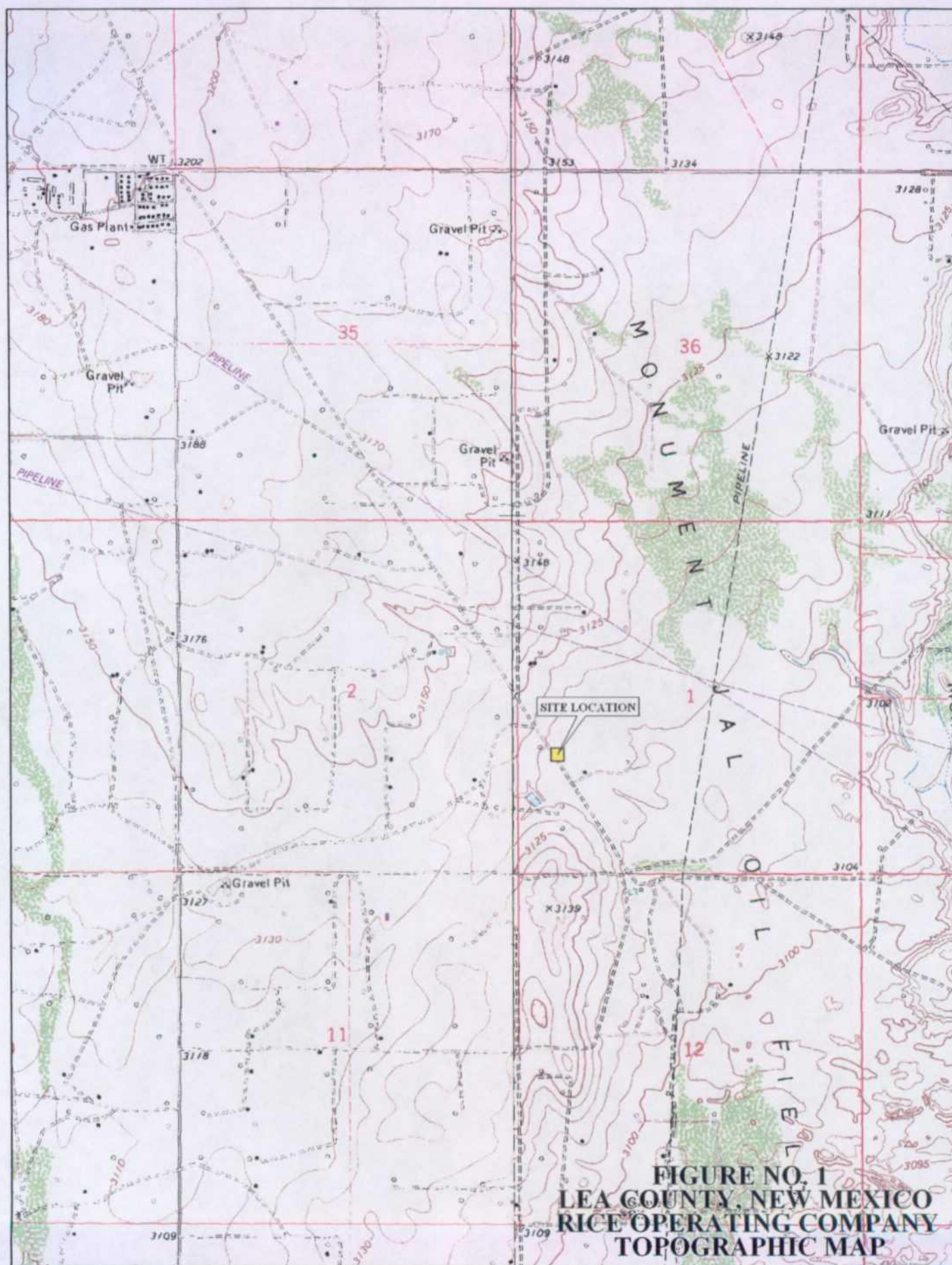


Respectfully Submitted,  
HIGHLANDER ENVIRONMENTAL CORP.

  
\_\_\_\_\_  
Timothy M. Reed, P.G.  
Vice President

cc: ROC





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Scale 1 : 24,000  
1" = 2000 ft

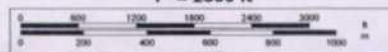




FIGURE NO. 2

LEA COUNTY, NEW MEXICO

RICE OPERATING COMPANY  
JUSTIS L-1  
SITE MAP

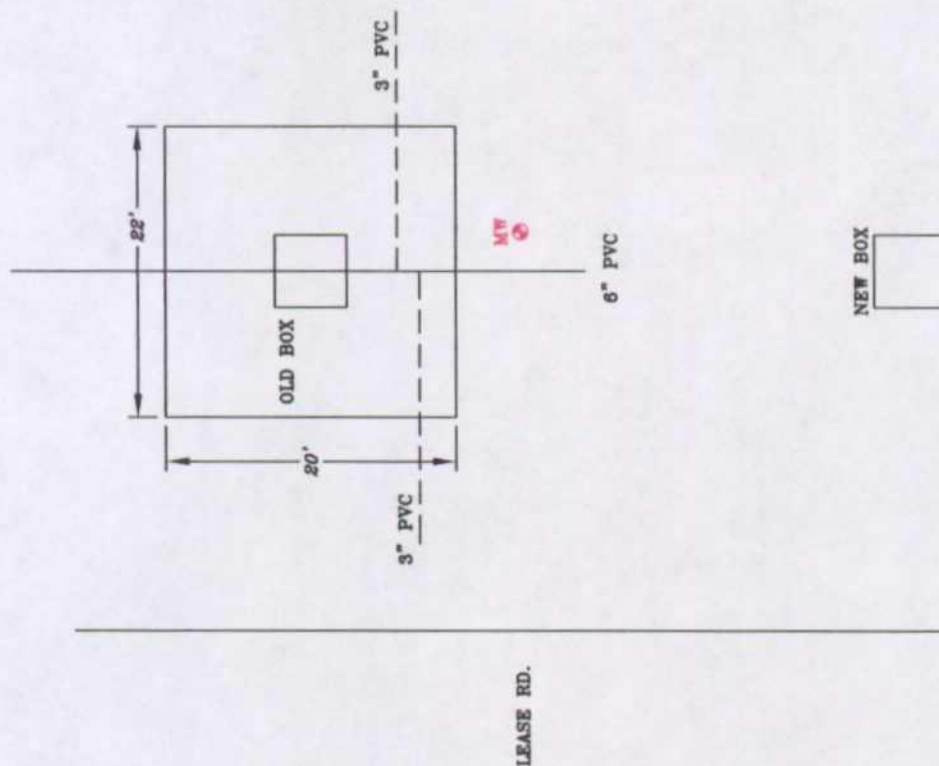
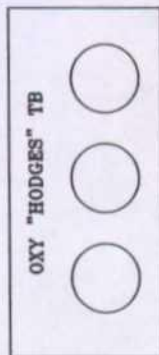
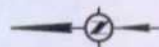
HIGHLANDER ENVIRONMENTAL CORP.  
MIDLAND, TEXAS

DATE:  
7/8/05

DATE: 8/11/05

FILE: 05-00000142

DATE: 8/11/05



# Justis L-1 vent

unit 'L', Sec. 1, T25S, R37E

2-in. well completed on 12/10/2004

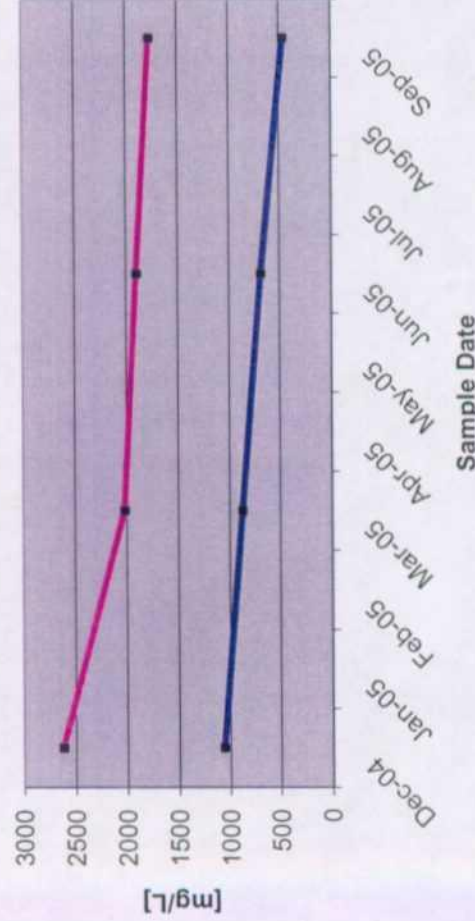
RICE Operating Company  
Monitor Well Data Sheet

All concentrations are in mg/L

MW #	DEPTH TO WATER	(ft)	TOTAL DEPTH	WELL VOLUME	VOLUME PURGED	SAMPLE DATE	Cl <sup>-</sup>	TDS	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	SULFATE	COMMENTS
1	78.43		92.00	-	20.00	12/21/04	1060	2620	0.0158	<0.001	0.00209	<0.001	550	
1	78.19		92.00	-	20.00	3/29/05	873	2020	0.000904	<0.001	<0.001	<0.001	502	
1	78.11		92.00	-	20.00	6/16/2005	684	1900	<0.001	<0.001	<0.001	<0.001	468	
1	77.95		92.00	-	25.00	9/15/2005	464	1770	<0.001	<0.001	<0.001	<0.001	307	
1	77.80		92.00	2.300	8.00	12/5/2005	390	1410	<0.001	<0.001	<0.001	0.000666	245	

Justis Jct. L-1 Monitor Well

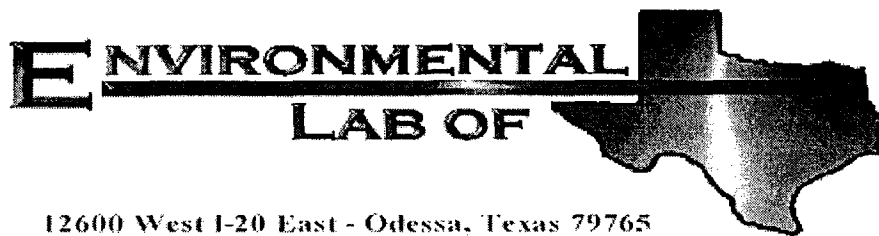
Chlorides Total Dissolved Solids (TDS)



**Analytical Report**

**4/08/2005**





12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

Prepared for:

Tim Reed

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/ Justice L-1

Project Number: 2142

Location: Lea County, NM

Lab Order Number: 5C31008

Report Date: 04/08/05

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
04/08/05 11:01

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	SC31008-01	Water	03/29/05 11:10	03/31/05 15:00

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
04/08/05 11:01

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (5C31008-01) Water</b>									
Benzene	I [0.000904]	0.00100	mg/L	1	ED50404	04/01/05	04/02/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		114 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	80-120		"	"	"	"	

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
04/08/05 11:01

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5C31008-01) Water									
Total Alkalinity	222	2.00	mg/L	1	ED50709	04/07/05	04/07/05	EPA 310.2M	
Chloride	873	12.5	"	25	ED50612	04/06/05	04/06/05	EPA 300.0	
Total Dissolved Solids	2020	5.00	"	1	ED50502	04/04/05	04/05/05	EPA 160.1	
Sulfate	502	12.5	"	25	ED50612	04/06/05	04/06/05	EPA 300.0	

Environmental Lab of Texas

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
04/08/05 11:01

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (5C31008-01) Water</b>									
Calcium	225	1.00	mg/L	100	ED50802	04/06/05	04/07/05	EPA 6010B	
Magnesium	77.8	0.0200	"	20	"	"	"	"	
Potassium	13.2	0.500	"	10	"	"	"	"	
Sodium	421	1.00	"	100	"	"	"	"	

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
04/08/05 11:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch ED50404 - EPA 5030C (GC)**

**Blank (ED50404-BLK1)**

Prepared & Analyzed: 04/01/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	21.6		ug/l	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	18.5		"	20.0		92.5	80-120			

**LCS (ED50404-BS1)**

Prepared & Analyzed: 04/01/05

Benzene	96.6		ug/l	100		96.6	80-120			
Toluene	96.1		"	100		96.1	80-120			
Ethylbenzene	95.2		"	100		95.2	80-120			
Xylene (p/m)	195		"	200		97.5	80-120			
Xylene (o)	93.5		"	100		93.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.5		"	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	17.5		"	20.0		87.5	80-120			

**Calibration Check (ED50404-CCV1)**

Prepared: 04/01/05 Analyzed: 04/02/05

Benzene	95.2		ug/l	100		95.2	80-120			
Toluene	95.1		"	100		95.1	80-120			
Ethylbenzene	96.9		"	100		96.9	80-120			
Xylene (p/m)	193		"	200		96.5	80-120			
Xylene (o)	95.6		"	100		95.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	21.7		"	20.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	20.7		"	20.0		104	80-120			

**Matrix Spike (ED50404-MS1)**

Source: SC28003-07

Prepared: 04/01/05 Analyzed: 04/04/05

Benzene	93.8		ug/l	100	ND	93.8	80-120			
Toluene	95.1		"	100	ND	95.1	80-120			
Ethylbenzene	102		"	100	ND	102	80-120			
Xylene (p/m)	204		"	200	ND	102	80-120			
Xylene (o)	99.7		"	100	ND	99.7	80-120			
Surrogate: a,a,a-Trifluorotoluene	23.9		"	20.0		120	80-120			
Surrogate: 4-Bromofluorobenzene	19.9		"	20.0		99.5	80-120			

Environmental Lab of Texas

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
04/08/05 11:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch ED50404 - EPA 5030C (GC)**

**Matrix Spike Dup (ED50404-MSD1)**

Source: 5C28003-07

Prepared: 04/01/05 Analyzed: 04/04/05

Benzene	91.9		ug/l	100	ND	91.9	80-120	2.05	20	
Toluene	93.5		"	100	ND	93.5	80-120	1.70	20	
Ethylbenzene	93.0		"	100	ND	93.0	80-120	9.23	20	
Xylene (p/m)	189		"	200	ND	94.5	80-120	7.63	20	
Xylene (o)	93.6		"	100	ND	93.6	80-120	6.31	20	
Surrogate: a,a,a-Trifluorotoluene	22.0		"	20.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	16.3		"	20.0		81.5	80-120			

Environmental Lab of Texas

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
04/08/05 11:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch ED50502 - General Preparation (WetChem)**

**Blank (ED50502-BLK1)**

Prepared: 04/04/05 Analyzed: 04/05/05

Total Dissolved Solids ND 5.00 mg/L

**Duplicate (ED50502-DUP1)**

Source: 5C31008-01

Prepared: 04/04/05 Analyzed: 04/05/05

Total Dissolved Solids 1970 5.00 mg/L 2020 2.51 20

**Batch ED50612 - General Preparation (WetChem)**

**Blank (ED50612-BLK1)**

Prepared & Analyzed: 04/06/05

Chloride ND 0.500 mg/L

Sulfate ND 0.500 "

**LCS (ED50612-BS1)**

Prepared & Analyzed: 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 & Analyzed: 04/06/05

Chloride 10.6 mg/L 10.0 106 80-120

Sulfate 9.55 " 10.0 95.5 80-120

**Duplicate (ED50612-DUP1)**

Source: 5C31008-01

Prepared & Analyzed: 04/06/05

Chloride 862 12.5 mg/L 873 1.27 20

Sulfate 493 12.5 " 502 1.81 20

**Batch ED50709 - General Preparation (WetChem)**

**Blank (ED50709-BLK1)**

Prepared & Analyzed: 04/07/05

Total Alkalinity ND 2.00 mg/L

Environmental Lab of Texas

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
04/08/05 11:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch ED50709 - General Preparation (WetChem)**

**Calibration Check (ED50709-CCV1)**

Prepared & Analyzed: 04/07/05

Bicarbonate Alkalinity	231		mg/L	200		116	80-120			
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**Duplicate (ED50709-DUP1)**

Source: 5C30009-01

Prepared & Analyzed: 04/07/05

Total Alkalinity	186	2.00	mg/L		194			4.21	20	
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Highlander Environmental Corp.  
1910 N. Big Spring St.  
Midland TX, 79705

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
04/08/05 11:01

**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		"	2.00		85.5	85-115			
Sodium	1.83		"	2.00		91.5	85-115			

**Duplicate (ED50802-DUP1)**

Source: 5C31008-01

Prepared: 04/06/05 Analyzed: 04/07/05

Calcium	214	1.00	mg/L		225			5.01	20	
Magnesium	74.7	0.0200	"		77.8			4.07	20	
Potassium	11.4	0.500	"		13.2			14.6	20	
Sodium	376	1.00	"		421			11.3	20	

Environmental Lab of Texas

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

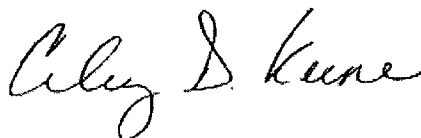
Fax: (432) 682-3946

Reported:  
04/08/05 11:01

### 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:

4/8/2005

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

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

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

Environmental Lab of Texas

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

Client: Highlander Env.  
 Date/Time: 5/31/05 3:05  
 Order #: 5031008  
 Initials: CK

**Sample Receipt Checklist**

Temperature of container/cooler?	Yes	No	1.5 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No	
Custody Seals intact on shipping container/cooler?	<input checked="" type="checkbox"/> Yes	No	Not present
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	No	Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Other observations:

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**Variance Documentation:**

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

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Corrective Action Taken:

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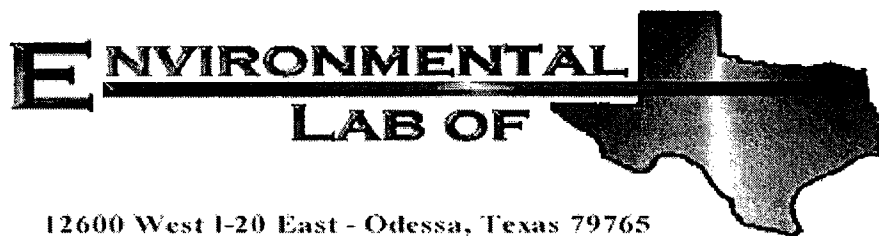
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**Analytical Report**

**6/23/2005**



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Tim Reed

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/ Justice L-1

Project Number: 2142

Location: None Given

Lab Order Number: 5F20006

Report Date: 06/23/05



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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
06/23/05 16:56

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	SF20006-01	Water	06/16/05 09:10	06/17/05 18:00

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
06/23/05 16:56

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (SF20006-01) Water</b>									
Benzene	ND	0.00100	mg/L	I	EF51702	06/21/05	06/21/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		104 %	80-120		"	"	"	"	
Surrogate: <i>4</i> -Bromofluorobenzene		87.0 %	80-120		"	"	"	"	

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
**Reported:**  
06/23/05 16:56

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (SF20006-01) Water</b>									
<b>Total Alkalinity</b>	<b>226</b>	2.00	mg/L	1	EF52213	06/22/05	06/22/05	EPA 310.2M	
<b>Chloride</b>	<b>684</b>	25.0	"	50	EF52209	06/20/05	06/20/05	EPA 300.0	
<b>Total Dissolved Solids</b>	<b>1900</b>	5.00	"	1	EF52212	06/22/05	06/23/05	EPA 160.1	
<b>Sulfate</b>	<b>468</b>	25.0	"	50	EF52209	06/20/05	06/20/05	EPA 300.0	

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
06/23/05 16:56

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5F20006-01) Water									
Calcium	179	0.500	mg/L	50	EF52114	06/21/05	06/21/05	EPA 6010B	
Magnesium	75.3	0.0500	"	"	"	"	"	"	
Potassium	9.55	0.500	"	10	"	"	"	"	
Sodium	326	0.500	"	50	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 10

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
06/23/05 16:56

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EF51702 - EPA 5030C (GC)**

**Blank (EF51702-BLK1)**

Prepared & Analyzed: 06/20/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	21.1		ug/l	20.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	17.2		"	20.0		86.0	80-120			

**LCS (EF51702-BS1)**

Prepared & Analyzed: 06/20/05

Benzene	104		ug/l	100		104	80-120			
Toluene	109		"	100		109	80-120			
Ethylbenzene	109		"	100		109	80-120			
Xylene (p/m)	202		"	200		101	80-120			
Xylene (o)	92.5		"	100		92.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.9		"	20.0		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	21.2		"	20.0		106	80-120			

**LCS Dup (EF51702-BSD1)**

Prepared & Analyzed: 06/20/05

Benzene	101		ug/l	100		101	80-120	2.93	20	
Toluene	109		"	100		109	80-120	0.00	20	
Ethylbenzene	102		"	100		102	80-120	6.64	20	
Xylene (p/m)	202		"	200		101	80-120	0.00	20	
Xylene (o)	90.4		"	100		90.4	80-120	2.30	20	
Surrogate: a,a,a-Trifluorotoluene	19.3		"	20.0		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	20.1		"	20.0		100	80-120			

**Calibration Check (EF51702-CCV1)**

Prepared & Analyzed: 06/20/05

Benzene	93.9		ug/l	100		93.9	80-120			
Toluene	97.5		"	100		97.5	80-120			
Ethylbenzene	89.6		"	100		89.6	80-120			
Xylene (p/m)	178		"	200		89.0	80-120			
Xylene (o)	85.9		"	100		85.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	17.0		"	20.0		85.0	80-120			
Surrogate: 4-Bromofluorobenzene	20.0		"	20.0		100	80-120			

Environmental Lab of Texas

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Page 5 of 10



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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
**Reported:**  
06/23/05 16:56

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EF51702 - EPA 5030C (GC)**

**Matrix Spike (EF51702-MS1)**

**Source: SF15001-08**

Prepared: 06/20/05 Analyzed: 06/21/05

Benzene	99.5		ug/l	100	ND	99.5	80-120			
Toluene	102		"	100	ND	102	80-120			
Ethylbenzene	96.6		"	100	ND	96.6	80-120			
Xylene (p/m)	189		"	200	ND	94.5	80-120			
Xylene (o)	86.5		"	100	ND	86.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	18.3		"	20.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	21.1		"	20.0		106	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
06/23/05 16:56

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EF52209 - General Preparation (WetChem)**

**Blank (EF52209-BLK1)**

Prepared & Analyzed: 06/20/05

Sulfate	ND	0.500	mg/L							
Chloride	ND	0.500	"							

**LCS (EF52209-BS1)**

Prepared & Analyzed: 06/20/05

Sulfate	10.4		mg/L	10.0		104	80-120			
Chloride	11.2		"	10.0		112	80-120			

**Calibration Check (EF52209-CCV1)**

Prepared & Analyzed: 06/20/05

Sulfate	10.3		mg/L	10.0		103	80-120			
Chloride	10.9		"	10.0		109	80-120			

**Duplicate (EF52209-DUP1)**

Source: SF17027-01

Prepared & Analyzed: 06/20/05

Sulfate	1740	50.0	mg/L		1780			2.27	20	
Chloride	1650	50.0	"		1660			0.604	20	

**Batch EF52212 - Filtration Preparation**

**Blank (EF52212-BLK1)**

Prepared: 06/22/05 Analyzed: 06/23/05

Total Dissolved Solids	ND	5.00	mg/L							
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**Duplicate (EF52212-DUP1)**

Source: SF16004-04

Prepared: 06/22/05 Analyzed: 06/23/05

Total Dissolved Solids	277	5.00	mg/L		276			0.362	20	
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**Batch EF52213 - General Preparation (WetChem)**

**Blank (EF52213-BLK1)**

Prepared & Analyzed: 06/22/05

Total Alkalinity	ND	2.00	mg/L							
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Environmental Lab of Texas

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Page 7 of 10

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
06/23/05 16:56

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EF52213 - General Preparation (WetChem)**

**Duplicate (EF52213-DUP1)**

Source: SF16009-01

Prepared & Analyzed: 06/22/05

Total Alkalinity	153	2.00	mg/L		153			0.00	20	
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**Reference (EF52213-SRM1)**

Prepared & Analyzed: 06/22/05

Bicarbonate Alkalinity	230		mg/L	200		115	80-120			
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Environmental Lab of Texas

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Page 8 of 10

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
06/23/05 16:56

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EF52114 - 6010B/No Digestion**

**Blank (EF52114-BLK1)**

Prepared & Analyzed: 06/21/05

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

**Calibration Check (EF52114-CCV1)**

Prepared & Analyzed: 06/21/05

Calcium	1.94		mg/L	2.00		97.0	85-115			
Magnesium	2.14		"	2.00		107	85-115			
Potassium	1.75		"	2.00		87.5	85-115			
Sodium	1.73		"	2.00		86.5	85-115			

**Duplicate (EF52114-DUP1)**

Source: SF16004-01

Prepared & Analyzed: 06/21/05

Calcium	20.4	0.100	mg/L		21.8			6.64	20	
Magnesium	19.6	0.0100	"		21.9			11.1	20	
Potassium	10.1	0.500	"		10.5			3.88	20	
Sodium	64.0	0.100	"		65.2			1.86	20	

Environmental Lab of Texas

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

Project: Rice/ Justice L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946  
Reported:  
06/23/05 16:56

### Notes and Definitions

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

Report Approved By:

*Raland K. Tuttle*

Date:

6/23/2005

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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# Environmental Lab of Texas

## Variance / Corrective Action Report – Sample Log-In

Client: Highlander

Date/Time: 6/2/05

Order #: SP20006

Initials: CK

### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	35 C
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/> Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<del>Not present</del>
Custody Seals intact on sample bottles?	<input checked="" type="checkbox"/> Yes	No	Not present
Chain of custody present?	<input checked="" type="checkbox"/> Yes	No	
Sample Instructions complete on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Chain of Custody signed when relinquished and received?	<input checked="" type="checkbox"/> Yes	No	
Chain of custody agrees with sample label(s)	<input checked="" type="checkbox"/> Yes	No	
Container labels legible and intact?	<input checked="" type="checkbox"/> Yes	No	
Sample Matrix and properties same as on chain of custody?	<input checked="" type="checkbox"/> Yes	No	
Samples in proper container/bottle?	<input checked="" type="checkbox"/> Yes	No	
Samples properly preserved?	<input checked="" type="checkbox"/> Yes	No	
Sample bottles intact?	<input checked="" type="checkbox"/> Yes	No	
Preservations documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Containers documented on Chain of Custody?	<input checked="" type="checkbox"/> Yes	No	
Sufficient sample amount for indicated test?	<input checked="" type="checkbox"/> Yes	No	
All samples received within sufficient hold time?	<input checked="" type="checkbox"/> Yes	No	
VOC samples have zero headspace?	<input checked="" type="checkbox"/> Yes	No	Not Applicable

Other observations:

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### Variance Documentation:

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

Regarding:

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Corrective Action Taken:

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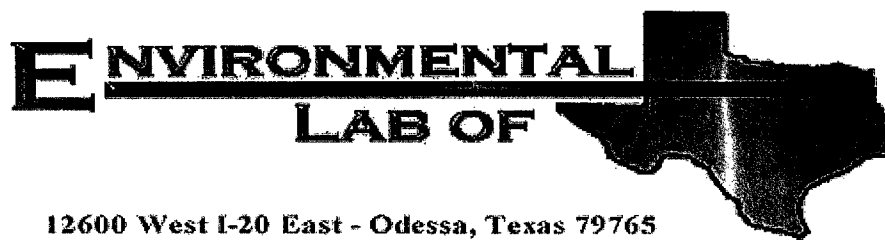


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**Analytical Report**

**9/29/2005**





12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Tim Reed

Highlander Environmental Corp.

1910 N. Big Spring St.

Midland, TX 79705

Project: Rice/ Justis L-1

Project Number: 2142

Location: Lea County, NM

Lab Order Number: 5119005

Report Date: 09/29/05

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

**Reported:**  
09/29/05 09:58

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	5119005-01	Water	09/15/05 10:30	09/16/05 15:45

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (SI19005-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EI51910	09/21/05	09/22/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		82.8 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		83.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (5I19005-01) Water									
Total Alkalinity	212	2.00	mg/L	1	E152215	09/21/05	09/21/05	EPA 310.2M	
Chloride	464	25.0	"	50	E152001	09/19/05	09/20/05	EPA 300.0	
pH	7.16		pH Units	1	E152004	09/19/05	09/19/05	EPA 150.1	O-04
Total Dissolved Solids	1770	5.00	mg/L	"	E152607	09/21/05	09/22/05	EPA 160.1	
Sulfate	307	25.0	"	50	E152001	09/19/05	09/20/05	EPA 300.0	

Environmental Lab of Texas

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-1 (SI19005-01) Water</b>									
Calcium	156	0.500	mg/L	50	E152709	09/27/05	09/27/05	EPA 6010B	
Magnesium	54.4	0.0100	"	10	"	"	"	"	
Potassium	8.89	0.500	"	"	"	"	"	"	
Sodium	295	0.500	"	50	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 10

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

**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 EI51910 - EPA 5030C (GC)**

**Blank (EI51910-BLK1)**

Prepared: 09/19/05 Analyzed: 09/22/05

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	35.7		"	40.0		89.2	80-120			

**LCS (EI51910-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		"	100		89.1	80-120			
Xylene (o)	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 Analyzed: 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)**

Source: 5115012-34

Prepared: 09/19/05 Analyzed: 09/22/05

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			

Environmental Lab of Texas

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI51910 - EPA 5030C (GC)**

**Matrix Spike Dup (EI51910-MSD1)**

Source: 5115012-34

Prepared: 09/19/05 Analyzed: 09/22/05

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		"	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 (o)	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			
Surrogate: 4-Bromofluorobenzene	35.6		"	40.0		89.0	80-120			

Environmental Lab of Texas

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Page 6 of 10

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

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

**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EI52001 - General Preparation (WetChem)</b>									
<b>Blank (EI52001-BLK1)</b>		Prepared: 09/19/05 Analyzed: 09/20/05							
Chloride	ND	0.500	mg/L						
Sulfate	ND	0.500	"						
<b>LCS (EI52001-BS1)</b>		Prepared: 09/19/05 Analyzed: 09/20/05							
Chloride	8.10		mg/L	10.0		81.0 80-120			
Sulfate	8.85		"	10.0		88.5 80-120			
<b>Calibration Check (EI52001-CCV1)</b>		Prepared: 09/19/05 Analyzed: 09/20/05							
Chloride	10.2		mg/L	10.0		102 80-120			
Sulfate	10.2		"	10.0		102 80-120			
<b>Duplicate (EI52001-DUP1)</b>		Source: SI19003-01		Prepared: 09/19/05 Analyzed: 09/20/05					
Chloride	154	5.00	mg/L		151		1.97	20	
Sulfate	134	5.00	"		133		0.749	20	
<b>Batch EI52004 - General Preparation (WetChem)</b>									
<b>Calibration Check (EI52004-CCV1)</b>		Prepared & Analyzed: 09/19/05							
pH	6.96		pH Units	7.00		99.4 97.5-102.5			O-04
<b>Duplicate (EI52004-DUP1)</b>		Source: SI19003-01		Prepared & Analyzed: 09/19/05					
pH	7.27		pH Units		7.32		0.685	2.5	O-04
<b>Batch EI52215 - General Preparation (WetChem)</b>									
<b>Blank (EI52215-BLK1)</b>		Prepared & Analyzed: 09/21/05							
Total Alkalinity	ND	2.00	mg/L						

Environmental Lab of Texas

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

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

**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI52215 - General Preparation (WetChem)**

**Calibration Check (EI52215-CCV1)**

Prepared & Analyzed: 09/21/05

Bicarbonate Alkalinity	229		mg/L	200		114	80-120			
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**Duplicate (EI52215-DUP1)**

Source: 5I13005-01

Prepared & Analyzed: 09/21/05

Total Alkalinity	0.00	2.00	mg/L		96.0				20	
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**Batch EI52607 - General Preparation (WetChem)**

**Blank (EI52607-BLK1)**

Prepared & Analyzed: 09/22/05

Total Dissolved Solids	ND	5.00	mg/L							
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**Duplicate (EI52607-DUP1)**

Source: 5I19003-01

Prepared & Analyzed: 09/22/05

Total Dissolved Solids	812	5.00	mg/L		840			3.39	5	
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**Duplicate (EI52607-DUP2)**

Source: 5I19033-08

Prepared & Analyzed: 09/22/05

Total Dissolved Solids	22100	5.00	mg/L		22400			1.35	5	
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Environmental Lab of Texas

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Page 8 of 10

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EI52709 - 6010B/No Digestion**

**Blank (EI52709-BLK1)**

Prepared & Analyzed: 09/27/05

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

**Calibration Check (EI52709-CCV1)**

Prepared & 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)**

Source: 5I19003-01

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	"		87.7			1.36	20	

Environmental Lab of Texas

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

Project: Rice/ Justis L-1  
Project Number: 2142  
Project Manager: Tim Reed

Fax: (432) 682-3946

Reported:  
09/29/05 09:58

### Notes and Definitions

O-04 This sample was analyzed outside the EPA recommended holding time.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

*Raland K. Tuttle*

Date:

9/29/2005

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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# Analysis Request and Chain of Custody Record

## HIGHLANDER ENVIRONMENTAL CORP.

1910 N. Big Spring St.  
Midland, Texas 79705

(432) 682-4559

Fax (432) 682-3946

CLIENT NAME: Rice

SITE MANAGER: Tim Reed

PROJECT NO.: 2142

PROJECT NAME: Rice / Justice L-1  
Lee County, TX

SAMPLE IDENTIFICATION

LAB I.D. NUMBER: 5119005

DATE: 9/15/05

TIME: 10:30

MATRIX: W

COMP: X

GRAB: X

MW-1

NUMBER OF CONTAINERS: 3

FLTERED (Y/N): MX

HCL: X

HNOS: X

ICE: X

NONE: X

PRESERVATIVE METHOD: None

PAH 8270	
TCIP Metals Ag As Ba Cd Cr Pb Hg Se	
TCIP Volatiles	
TCIP Semi Volatiles	
RCI	
GCMS Vol 8240/8250/824	
GCMS Semi Vol 8270/825	
PCB 8080/808	
PCB 808/808	
BOD, TSS, P, (TSS), Chloride	
Gamm Spec	
Alpha Beta (Air)	
PLM (Asbestos)	
Metalloids	

RELINQUISHED BY: (Signature) <u>[Signature]</u> Date: <u>9/16/05</u> Time: <u>3:45</u>		RECEIVED BY: (Signature) <u>[Signature]</u> Date: <u>9/16/05</u> Time: <u>3:45</u>	
RELINQUISHED BY: (Signature) <u>[Signature]</u> Date: <u>9/16/05</u> Time: <u>3:45</u>		RECEIVED BY: (Signature) <u>[Signature]</u> Date: <u>9/16/05</u> Time: <u>3:45</u>	
RELINQUISHED BY: (Signature) <u>[Signature]</u> Date: <u>9/16/05</u> Time: <u>3:45</u>		RECEIVED BY: (Signature) <u>[Signature]</u> Date: <u>9/16/05</u> Time: <u>3:45</u>	
RECEIVING LABORATORY: <u>ELT</u>		RECEIVED BY: (Signature) <u>[Signature]</u> Date: <u>9/16/05</u> Time: <u>3:45</u>	
ADDRESS: <u>2142</u>		DATE: <u>9/16/05</u> TIME: <u>3:45</u>	
CITY: <u>Midland</u> STATE: <u>TX</u> ZIP: <u>79705</u>		DATE: <u>9/16/05</u> TIME: <u>3:45</u>	
CONTACT: <u>3.0 label/keels</u>		DATE: <u>9/16/05</u> TIME: <u>3:45</u>	
SAMPLE CONDITION WHEN RECEIVED: <u>3.0 label/keels</u>		DATE: <u>9/16/05</u> TIME: <u>3:45</u>	
MATERIAL: <u>3.0 label/keels</u>		DATE: <u>9/16/05</u> TIME: <u>3:45</u>	
REMARKS: <u>3.0 label/keels</u>		DATE: <u>9/16/05</u> TIME: <u>3:45</u>	

Please Fill out all copies - Laboratory retains yellow copy - Return original copy to Highlander Environmental Corp. - Project Manager retains pink copy - Accounting receives Gold copy

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

Client: Highlander

Date/Time: 9/16/05 3:45

Order #: 5119005

Initials: CK

**Sample Receipt Checklist**

Temperature of container/cooler?	Yes	No	3.0 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?	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:

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**Variance Documentation:**

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

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Corrective Action Taken:

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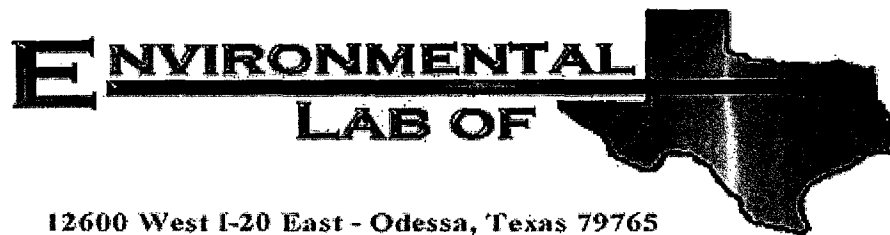
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**Analytical Report**

**12/22/05**



## Analytical Report

**Prepared for:**

Kristin Farris-Pope

Rice Operating Co.

122 W. Taylor

Hobbs, NM 88240

Project: Justis L-1 Vent

Project Number: None Given

Location: Lea County

Lab Order Number: 5L07011

Report Date: 12/22/05

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Monitor Well #1	5L07011-01	Water	12/05/05 16:45	12/07/05 15:15



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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 (5L07011-01) Water</b>									
Benzene	ND	0.00100	mg/L	1	EL50801	12/08/05	12/08/05	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	I [0.000666]	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 10

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 (SL07011-01) Water</b>									
Total Alkalinity	220	4.00	mg/L	2	EL51202	12/12/05	12/12/05	EPA 310.2M	
Chloride	390	10.0	"	20	EL50917	12/08/05	12/09/05	EPA 300.0	
Total Dissolved Solids	1410	5.00	"	1	EL51210	12/08/05	12/09/05	EPA 160.1	
Sulfate	245	10.0	"	20	EL50917	12/08/05	12/09/05	EPA 300.0	

Environmental Lab of Texas

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471  
**Reported:**  
12/22/05 17:00

**Total Metals by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Monitor Well #1 (SL07011-01) Water</b>									
Calcium	138	0.500	mg/L	50	EL51903	12/16/05	12/16/05	EPA 6010B	
Magnesium	44.6	0.0100	"	10	"	"	"	"	
Potassium	9.24	0.500	"	"	"	"	"	"	
Sodium	284	0.500	"	50	"	"	"	"	

Environmental Lab of Texas

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Page 4 of 10

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

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

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

**Batch EL50801 - EPA 5030C (GC)**

**Blank (EL50801-BLK1)**

Prepared & Analyzed: 12/08/05

Benzene	ND	0.00100	mg/L					
Toluene	ND	0.00100	"					
Ethylbenzene	ND	0.00100	"					
Xylene (p/m)	ND	0.00100	"					
Xylene (o)	ND	0.00100	"					
Surrogate: a,a,a-Trifluorotoluene	33.8		ug/l	40.0		84.5	80-120	
Surrogate: 4-Bromofluorobenzene	32.6		"	40.0		81.5	80-120	

**LCS (EL50801-BS1)**

Prepared & Analyzed: 12/08/05

Benzene	0.0492	0.00100	mg/L	0.0500		98.4	80-120	
Toluene	0.0526	0.00100	"	0.0500		105	80-120	
Ethylbenzene	0.0503	0.00100	"	0.0500		101	80-120	
Xylene (p/m)	0.0973	0.00100	"	0.100		97.3	80-120	
Xylene (o)	0.0504	0.00100	"	0.0500		101	80-120	
Surrogate: a,a,a-Trifluorotoluene	45.9		ug/l	40.0		115	80-120	
Surrogate: 4-Bromofluorobenzene	43.9		"	40.0		110	80-120	

**Calibration Check (EL50801-CCV1)**

Prepared & Analyzed: 12/08/05

Benzene	42.9		ug/l	50.0		85.8	80-120	
Toluene	43.5		"	50.0		87.0	80-120	
Ethylbenzene	41.6		"	50.0		83.2	80-120	
Xylene (p/m)	83.4		"	100		83.4	80-120	
Xylene (o)	42.5		"	50.0		85.0	80-120	
Surrogate: a,a,a-Trifluorotoluene	39.3		"	40.0		98.2	80-120	
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		95.8	80-120	

**Matrix Spike (EL50801-MS1)**

Source: 5L05006-08

Prepared & Analyzed: 12/08/05

Benzene	0.0434	0.00100	mg/L	0.0500	ND	86.8	80-120	
Toluene	0.0451	0.00100	"	0.0500	ND	90.2	80-120	
Ethylbenzene	0.0429	0.00100	"	0.0500	ND	85.8	80-120	
Xylene (p/m)	0.0842	0.00100	"	0.100	ND	84.2	80-120	
Xylene (o)	0.0438	0.00100	"	0.0500	ND	87.6	80-120	
Surrogate: a,a,a-Trifluorotoluene	43.5		ug/l	40.0		109	80-120	
Surrogate: 4-Bromofluorobenzene	38.4		"	40.0		96.0	80-120	

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Page 5 of 10

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

**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 EL50801 - EPA 5030C (GC)**

**Matrix Spike Dup (EL50801-MSD1)**

Source: SL05006-08

Prepared & Analyzed: 12/08/05

Benzene	0.0459	0.00100	mg/L	0.0500	ND	91.8	80-120	5.60	20	
Toluene	0.0500	0.00100	"	0.0500	ND	100	80-120	10.3	20	
Ethylbenzene	0.0481	0.00100	"	0.0500	ND	96.2	80-120	11.4	20	
Xylene (p/m)	0.0929	0.00100	"	0.100	ND	92.9	80-120	9.82	20	
Xylene (o)	0.0491	0.00100	"	0.0500	ND	98.2	80-120	11.4	20	
Surrogate: a,a,a-Trifluorotoluene	38.6		ug/l	40.0		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	36.2		"	40.0		90.5	80-120			

Environmental Lab of Texas

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

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

**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EL50917 - General Preparation (WetChem)**

**Blank (EL50917-BLK1)**

Prepared: 12/08/05 Analyzed: 12/09/05

Chloride	ND	0.500	mg/L							
Sulfate	ND	0.500	"							

**LCS (EL50917-BS1)**

Prepared: 12/08/05 Analyzed: 12/09/05

Chloride	8.00		mg/L	10.0		80.0	80-120			
Sulfate	9.08		"	10.0		90.8	80-120			

**Calibration Check (EL50917-CCV1)**

Prepared: 12/08/05 Analyzed: 12/09/05

Sulfate	9.19		mg/L	10.0		91.9	80-120			
Chloride	8.12		"	10.0		81.2	80-120			

**Duplicate (EL50917-DUP1)**

Source: 5L07010-01

Prepared: 12/08/05 Analyzed: 12/09/05

Chloride	96.0	5.00	mg/L		93.5			2.64	20	
Sulfate	117	5.00	"		114			2.60	20	

**Batch EL51202 - General Preparation (WetChem)**

**Blank (EL51202-BLK1)**

Prepared & Analyzed: 12/12/05

Total Alkalinity	ND	2.00	mg/L							
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**Duplicate (EL51202-DUP1)**

Source: 5L07010-01

Prepared & Analyzed: 12/12/05

Total Alkalinity	178	4.00	mg/L		180			1.12	20	
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**Reference (EL51202-SRM1)**

Prepared & Analyzed: 12/12/05

Bicarbonate Alkalinity	230		mg/L	200		115	80-120			
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Environmental Lab of Texas

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EL51210 - General Preparation (WetChem)**

**Blank (EL51210-BLK1)**

Prepared: 12/08/05 Analyzed: 12/09/05

Total Dissolved Solids ND 5.00 mg/L

**Duplicate (EL51210-DUP1)**

Source: 5L07010-01

Prepared: 12/08/05 Analyzed: 12/09/05

Total Dissolved Solids 604 5.00 mg/L 586 3.03 5

**Duplicate (EL51210-DUP2)**

Source: 5L08004-05

Prepared: 12/08/05 Analyzed: 12/09/05

Total Dissolved Solids 2700 5.00 mg/L 2840 5.05 5

Environmental Lab of Texas

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EL51903 - 6010B/No Digestion**

**Blank (EL51903-BLK1)**

Prepared & Analyzed: 12/16/05

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

**Calibration Check (EL51903-CCV1)**

Prepared & Analyzed: 12/16/05

Calcium	1.95		mg/L	2.00		97.5	85-115			
Magnesium	2.11		"	2.00		106	85-115			
Potassium	1.82		"	2.00		91.0	85-115			
Sodium	1.74		"	2.00		87.0	85-115			

**Duplicate (EL51903-DUP1)**

Source: 5L06016-01

Prepared & Analyzed: 12/16/05

Calcium	53.1	0.100	mg/L		51.6			2.87	20	
Magnesium	7.42	0.0100	"		7.48			0.805	20	
Potassium	3.54	0.0500	"		3.53			0.283	20	
Sodium	43.3	0.100	"		41.7			3.76	20	

Environmental Lab of Texas

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

Project: Justis L-1 Vent  
Project Number: None Given  
Project Manager: Kristin Farris-Pope

Fax: (505) 397-1471

Reported:  
12/22/05 17:00

### Notes and Definitions

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

Report Approved By:

*Raland K. Tuttle*

Date:

12/22/2005

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

Client: RICE AP.

Date/Time: 12/7/05 3:15

Order #: 5601011

Initials: CK

**Sample Receipt Checklist**

Temperature of container/cooler?	Yes	No	I, C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	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:

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**Variance Documentation:**

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

Corrective Action Taken:

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