

1R - 427-21

**APPROVALS**

**YEAR(S):**

2013

**Hansen, Edward J., EMNRD**

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**From:** Hansen, Edward J., EMNRD  
**Sent:** Wednesday, January 30, 2013 1:29 PM  
**To:** Hack Conder (hconder@riceswd.com)  
**Cc:** Leking, Geoffrey R, EMNRD; Laura Pena (lpna@riceswd.com); Katie Jones <kjones@riceswd.com> (kjones@riceswd.com); Scott Curtis (scurtis@riceswd.com)  
**Subject:** Remediation Plan (1R427-21) Termination - ROC EME C-12-1 Site

**RE: Termination Request  
for the Rice Operating Company's  
EME C-12-1 Site  
Unit Letter C, Section 12, T20S, R36E, NMPM, Lea County, New Mexico  
Remediation Plan (1R427-21) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated January 18, 2013 (received January 23, 2013). The report is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R427-21) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen  
Hydrologist  
Environmental Bureau

# **RICE** *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 8753

January 18, 2013

RECEIVED

JAN 23 2013

Mr. Edward Hansen  
New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau  
1220 S. St. Francis Drive  
Santa Fe, New Mexico 87505

Oil Conservation Division  
1220 S. St. Francis Drive  
Santa Fe, NM 87505

RE: Termination Request  
EME C-12-1 (1R427-21): UL/C Sec. 12, T20S, R36E  
RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (SWD) System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

## **Background**

In 2003, ROC initiated work on the former C-12-1 junction box. The site is located in UL/C, Sec. 12, T20S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 31 +/- feet. After this junction box was eliminated, the site was delineated using a backhoe to collect soil samples at regular intervals, creating an 8 x 8 x 6 ft deep excavation. Each sample was field titrated for chlorides, resulting in low concentrations. The excavated soil was blended on site and representative composite samples of the excavation bottom, the excavation walls, and the remediated backfill were sent to a commercial for analysis of chloride and TPH, resulting in a sidewall chloride concentration of 70.9 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bottom composite resulted in chloride, GRO, and DRO concentrations below detectable limits. The remediated backfill resulted in a chloride concentration of 106 mg/kg and GRO and DRO concentrations below detectable limits. The remediated backfill was returned to the excavation to ground surface and contoured to the surrounding area. This site is located next to an entrance gate and driving surface; therefore, seeding was not necessary.

The junction box site location map, final report, photodocumentation, laboratory analysis and current photodocumentation are attached.

**Recommendations**

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,  
RICE Operating Company

A handwritten signature in black ink, appearing to read "H. Conder", with a long horizontal flourish extending to the right.

Hack Conder  
Environmental Manager

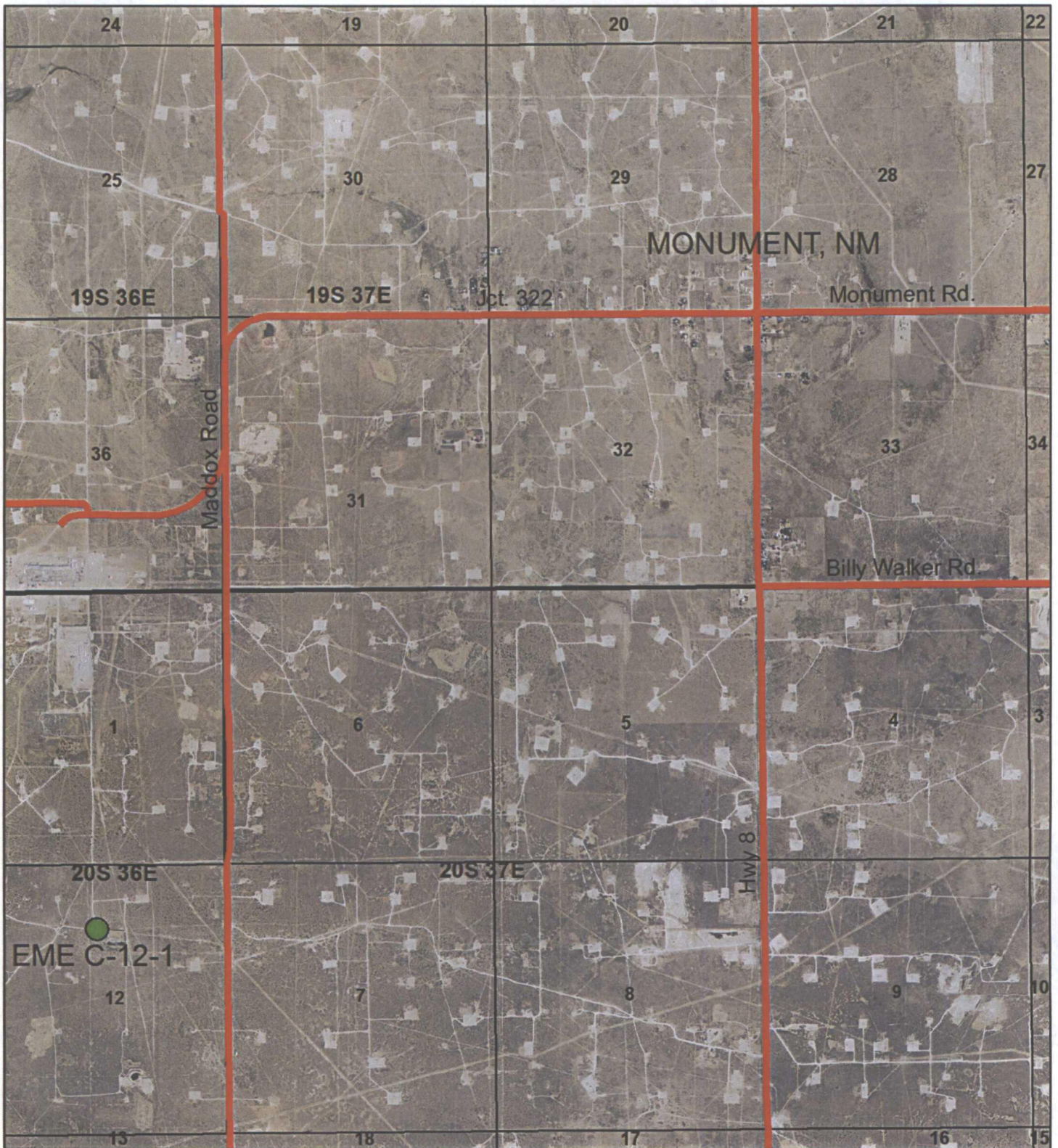
enclosures



## Site Location Map

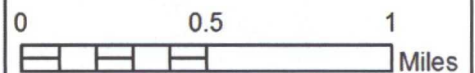
**RICE *Operating Company* (ROC)**  
112 West Taylor Hobbs, NM 88240  
Phone: (575) 393-9174 Fax: (575) 397-1471





## EME C-12-1

UL C SECTION 12  
T-20-S R-36-E  
LEA COUNTY, NM



Drawing date: 12/7/12  
Drafted by: Tony Grieco



# Junction Box Report

**RICE *Operating Company* (ROC)**  
112 West Taylor Hobbs, NM 88240  
Phone: (575) 393-9174 Fax: (575) 397-1471

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	C-12-1	C	12	20 S	36 E	Lea	Length	Width	Depth
							No Box		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Charcie Byrd OTHER \_\_\_\_\_

Depth to Groundwater 31 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 3/4/2003 Date Completed 3/4/2003 OCD Witness No

Soil Excavated 14 cubic yards Excavation Length 8' Width 8' Depth 6' feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

**FINAL ANALYTICAL RESULTS:** Sample Date 3/4/2003 Sample Depth 6' bgs

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
SIDEWALLS	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	70.9
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<20.0
REMEDIED	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	106

General Description of Remedial Action: Chloride and TPH impact were minimal at this box location. Both parameters exhibited a vertical decline. Excavation produced a 8' x 8' x 6' hole that tested clean on the walls and bottom at 6'bgs. The excavated soil was landfarmed on location and then backfilled and contoured to the surrounding area.

These activities are not a threat to groundwater, livestock, or public health.

cc: lab results, photos

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH (ft)	ppm
Vertical	4	300
	6	50
Bottom Comp.	6	75
Wall Comp.	4'	225
Remed. Comp.	n/a	100

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 3/12/2003 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Projects Scientist



## EME jct. C-12-1



Impact Excavation



Backfilled (no box required)

# ANALYTICAL REPORT

**Prepared for:**

~~DONNIE ANDERSON~~  
RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

*Kristin*

**Project:** C-12-1

**PO#:**

**Order#:** G0305877

**Report Date:** 03/10/2003

**Certificates**

US EPA Laboratory Code TX00158

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## ENVIRONMENTAL LAB OF TEXAS

### SAMPLE WORK LIST

RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

Order#: G0305877  
Project:  
Project Name: C-12-1  
Location: EME

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0305877-01	5pt. Bottom Comp. @ 6'	SOIL	3/4/03 15:00	3/5/03 9:08	4 oz. Glass jar	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0305877-02	4pt. Wall Comp. @ 4'	SOIL	3/4/03 15:00	3/5/03 9:08	4 oz. Glass jar	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0305877-03	Remediation Pile Composite	SOIL	3/4/03 16:00	3/5/03 9:08	4 oz. Glass jar	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

DONNIE ANDERSON  
RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

Order#: G0305877  
Project:  
Project Name: C-12-1  
Location: EME

Lab ID: 0305877-01  
Sample ID: 5pt. Bottom Comp. @ 6'

### 8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		3/6/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	85%	70	130
1-Chlorooctadecane	76%	70	130

### 8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004865-02		3/6/03 21:21	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	82%	80	120
Bromofluorobenzene	112%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

DONNIE ANDERSON  
RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

Order#: G0305877  
Project:  
Project Name: C-12-1  
Location: EME

Lab ID: 0305877-02  
Sample ID: 4pt. Wall Comp. @4'

### 8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		3/7/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	85%	70	130
1-Chlorooctadecane	76%	70	130

### 8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004865-02		3/6/03 21:41	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	103%	80	120
Bromofluorobenzene	120%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

DONNIE ANDERSON  
RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

Order#: G0305877  
Project:  
Project Name: C-12-1  
Location: EME

Lab ID: 0305877-03  
Sample ID: Remediation Pile Composite

### 8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		3/7/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	88%	70	130
1-Chlorooctadecane	78%	70	130

### 8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004865-02		3/6/03 22:01	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	102%	80	120
Bromofluorobenzene	120%	80	120

Approval: Roland K Tuttle 3-10-03  
 Roland K. Tuttle, Lab Director, QA Officer      Date  
 Celey D. Keene, Org. Tech. Director  
 Jeanne McMurrey, Inorg. Tech. Director  
 Sandra Biezugbe, Lab Tech.  
 Sara Molina, Lab Tech.

DL = Diluted out    N/A = Not Applicable    RL = Reporting Limit

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# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

DONNIE ANDERSON  
RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

Order#: G0305877  
Project:  
Project Name: C-12-1  
Location: EME

Lab ID: 0305877-01  
Sample ID: 5pt. Bottom Comp. @ 6'

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	<20.0	mg/kg	1	20	9253	3/6/03	SB

Lab ID: 0305877-02  
Sample ID: 4pt. Wall Comp. @ 4'

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	70.9	mg/kg	1	20	9253	3/6/03	SB

Lab ID: 0305877-03  
Sample ID: Remediation Pile Composite

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	106	mg/kg	1	20	9253	3/6/03	SB

Approval: Raland K. Tuttle 3-10-03  
Raland K. Tuttle, Lab Director, QA Officer Date  
Celey D. Keene, Org. Tech. Director  
Jeanne McMurrey, Inorg. Tech. Director  
Sandra Biezugbe, Lab Tech.  
Sara Molina, Lab Tech.



**ENVIRONMENTAL LAB OF TEXAS****QUALITY CONTROL REPORT****8015M****Order#: G0305877**

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004875-02			<10.0		
TOTAL, C6-C35-mg/kg		0004876-02			<10.0		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305877-01	0	952	823	86.4%	
TOTAL, C6-C35-mg/kg		0305881-02	0	952	766	80.5%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305877-01	0	952	838	88.%	1.8%
TOTAL, C6-C35-mg/kg		0305881-02	0	952	720	75.6%	6.2%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004875-05		1000	777	77.7%	
TOTAL, C6-C35-mg/kg		0004876-05		1000	864	86.4%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305877

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004865-02			<0.025		
Toluene-mg/kg		0004865-02			<0.025		
Ethylbenzene-mg/kg		0004865-02			<0.025		
p/m-Xylene-mg/kg		0004865-02			<0.025		
o-Xylene-mg/kg		0004865-02			<0.025		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305891-01	0.032	2.5	2.17	85.5%	
Toluene-mg/kg		0305891-01	0.1	2.5	2.20	84.%	
Ethylbenzene-mg/kg		0305891-01	0.093	2.5	2.41	92.7%	
p/m-Xylene-mg/kg		0305891-01	0.292	5	5.05	95.2%	
o-Xylene-mg/kg		0305891-01	0.069	2.5	2.47	96.%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305891-01	0.032	2.5	2.23	87.9%	2.7%
Toluene-mg/kg		0305891-01	0.1	2.5	2.25	86.%	2.2%
Ethylbenzene-mg/kg		0305891-01	0.093	2.5	2.43	93.5%	0.8%
p/m-Xylene-mg/kg		0305891-01	0.292	5	5.07	95.6%	0.4%
o-Xylene-mg/kg		0305891-01	0.069	2.5	2.48	96.4%	0.4%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004865-05		0.1	0.098	98.%	
Toluene-mg/kg		0004865-05		0.1	0.102	102.%	
Ethylbenzene-mg/kg		0004865-05		0.1	0.103	103.%	
p/m-Xylene-mg/kg		0004865-05		0.2	0.214	107.%	
o-Xylene-mg/kg		0004865-05		0.1	0.107	107.%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0305877

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004859-01			<20.0		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305877-01	0	275.75	248	89.9%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305877-01	248	275.75	257	93.2%	3.6%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004859-04		5000	4960	99.2%	

12600 West I-20 East  
Odessa, Texas 79763

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

Mar 11 03 08:37a

**Project Manager:**

**Project Name:**

**Company Name**

Project #:

**Company Address:**

Project Loc:

City/State/Zip:

PO 註:

Telephone No:

**Fax No:**

**Sampler Signature:**

P. 10



## Current Photodocumentation

**RICE *Operating Company* (ROC)**  
112 West Taylor Hobbs, NM 88240  
Phone: (575) 393-9174 Fax: (575) 397-1471

EME C-12-1 (1R427-21)  
Unit Letter C, Section 12, T20S, R36E



Facing Southeast

12/31/2012



Facing North

12/31/2012