

1R - 427-22

REPORTS

DATE:

4-9-2003

1 R 427 -22

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	F-11	F	10	20S	36E	Lea	Length	Width	Depth
							No Box		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Faye, George, & Harry Klein OTHER _____

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

Date Started 2/24/2003 Date Completed 4/1/2003 OCD Witness No

Soil Excavated 104 cubic yards Excavation Length 20 Width 20 Depth 7 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 2/25/2003 Sample Depth 7'

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 NMOC 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	142
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	106
REMEDIED	<0.025	<0.025	<0.025	<0.025	<10.0	186	<20

General Description of Remedial Action: The box was located amongst sparsely vegetated sand dunes. The site was delineated vertically and laterally for TPH and chlorides, producing a 20' x 20' x 7' excavation. The excavated soil was landfarmed on location and then backfilled into the hole. The site was contoured to mimic the natural landscape. This site is no longer a junction so a box was not required. The disturbed surface was seeded with native vegetation and is expected to return to productive capacity at a normal rate. These activities are not detrimental to groundwater, livestock, or public health.

CHLORIDE FIELD TESTS

LOCATION	DEPTH	ppm
Vertical	2	715
	7	100
wall comp.	n/a	173
bottom comp.	n/a	147

cc: lab results, photos

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

DATE 4/9/2003 PRINTED NAME Kristin Farris
SIGNATURE Kristin Farris TITLE Projects Scientist

EME jct. F-11



↓ Excavation ↑



Backfilled

ANALYTICAL REPORT

Prepared for:

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

Project: Jct. F-11
PO#: 749
Order#: G0305835
Report Date: 03/05/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0305835
Project:
Project Name: Jct. F-11
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>
0305835-01	Btm. Comp. @ 7'	SOIL	2/25/03	2/27/03 19:36	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -2 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0305835-02	Wall Comp. @ 5'	SOIL	2/25/03	2/27/03 19:36	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: -2 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305835
Project:
Project Name: Jct. F-11
Location: EME

Lab ID: 0305835-01
Sample ID: Btm. Comp. @ 7'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		2/28/03	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	96%	70	130
1-Chlorooctadecane	90%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004839-02		3/4/03 11:20	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	91%	80	120
Bromofluorobenzene	94%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305835
Project:
Project Name: Jct. F-11
Location: EME

Lab ID: 0305835-02
Sample ID: Wall Comp. @ 5'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		2/28/03	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	111%	70	130
1-Chlorooctadecane	105%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004839-02		3/4/03 11:40	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	98%	80	120
Bromofluorobenzene	102%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

3/5/03

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305835
Project:
Project Name: Jct. F-11
Location: EME

Lab ID: 0305835-01
Sample ID: Btm. Comp. @ 7'

Test Parameters

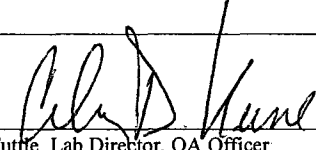
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	106	mg/kg	1	20	9253	3/3/03	SB

Lab ID: 0305835-02
Sample ID: Wall Comp. @ 5'

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	142	mg/kg	1	20	9253	3/3/03	SB

Approval:


Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

3/5/03

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0305835

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004808-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305835-01	0	952	875	91.9%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305835-01	0	952	809	85.0%	7.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004808-05		1000	822	82.2%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305835

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004839-02			<0.025		
Toluene-mg/kg		0004839-02			<0.025		
Ethylbenzene-mg/kg		0004839-02			<0.025		
p/m-Xylene-mg/kg		0004839-02			<0.025		
o-Xylene-mg/kg		0004839-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305835-02	0	0.1	0.097	97.%	
Toluene-mg/kg		0305835-02	0	0.1	0.100	100.%	
Ethylbenzene-mg/kg		0305835-02	0	0.1	0.102	102.%	
p/m-Xylene-mg/kg		0305835-02	0	0.2	0.210	105.%	
o-Xylene-mg/kg		0305835-02	0	0.1	0.103	103.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305835-02	0	0.1	0.098	98.%	1.%
Toluene-mg/kg		0305835-02	0	0.1	0.100	100.%	0.%
Ethylbenzene-mg/kg		0305835-02	0	0.1	0.101	101.%	1.%
p/m-Xylene-mg/kg		0305835-02	0	0.2	0.208	104.%	1.%
o-Xylene-mg/kg		0305835-02	0	0.1	0.102	102.%	1.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004839-05		0.1	0.098	98.%	
Toluene-mg/kg		0004839-05		0.1	0.102	102.%	
Ethylbenzene-mg/kg		0004839-05		0.1	0.102	102.%	
p/m-Xylene-mg/kg		0004839-05		0.2	0.211	105.5%	
o-Xylene-mg/kg		0004839-05		0.1	0.105	105.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0305835

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004828-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305835-01	106	1000	1100	99.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305835-01	106	1000	1100	99.4%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004828-04		5000	4960	99.2%	

12600 West I-20 East
Odessa, Texas 79763

PO #: 749

Sampler Signature: Christin Starnes

Op Hartman

Р. 2

ANALYTICAL REPORT

Prepared for:

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

Project: Jct. F-11
PO#: 757
Order#: G0306158
Report Date: 04/08/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0306158
Project:
Project Name: Jct. F-11
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>
0306158-01	Remed. Comp.	SOIL	4/1/03	4/3/03 9:30	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 7 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306158
Project:
Project Name: Jct. F-11
Location: EME

Lab ID: 0306158-01
Sample ID: Remed. Comp.

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		4/4/03	1	1	WL	8015M
		14:03				

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	186	10.0
TOTAL, C6-C35	186	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	103%	70	130
1-Chlorooctadecane	122%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0005140-02		4/3/03	1	25	CK	8021B
		20:27				

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	97%	80	120
Bromofluorobenzene	103%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

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

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306158
Project:
Project Name: Jct. F-11
Location: EME

Lab ID: 0306158-01
Sample ID: Remed. Comp.

Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Chloride	<20.0	mg/kg	1	20	9253	4/7/03	CK

Approval:

Raland K. Tuttle 4-08-03

Raland K. Tuttle, Lab Director, QA Officer
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#: G0306158

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005139-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306154-01	0	952	1070	112.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306154-01	0	952	964	101.3%	10.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005139-05		1000	997	99.7%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306158

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005140-02			<0.025		
Toluene-mg/kg		0005140-02			<0.025		
Ethylbenzene-mg/kg		0005140-02			<0.025		
p/m-Xylene-mg/kg		0005140-02			<0.025		
o-Xylene-mg/kg		0005140-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306165-02	0	0.1	0.102	102.%	
Toluene-mg/kg		0306165-02	0	0.1	0.104	104.%	
Ethylbenzene-mg/kg		0306165-02	0	0.1	0.105	105.%	
p/m-Xylene-mg/kg		0306165-02	0	0.2	0.219	109.5%	
o-Xylene-mg/kg		0306165-02	0	0.1	0.105	105.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306165-02	0	0.1	0.105	105.%	2.9%
Toluene-mg/kg		0306165-02	0	0.1	0.107	107.%	2.8%
Ethylbenzene-mg/kg		0306165-02	0	0.1	0.110	110.%	4.7%
p/m-Xylene-mg/kg		0306165-02	0	0.2	0.229	114.5%	4.5%
o-Xylene-mg/kg		0306165-02	0	0.1	0.111	111.%	5.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005140-05		0.1	0.091	91.%	
Toluene-mg/kg		0005140-05		0.1	0.094	94.%	
Ethylbenzene-mg/kg		0005140-05		0.1	0.102	102.%	
p/m-Xylene-mg/kg		0005140-05		0.2	0.216	108.%	
o-Xylene-mg/kg		0005140-05		0.1	0.097	97.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306158

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005155-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306157-01	248	500	762	102.8%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306157-01	248	500	762	102.8%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005155-04		5000	4870	97.4%	

12600 West I-20 East
Odessa, Texas 79763

Christin Farriz

[illegible]