

1R - 427 - 85

REPORTS

DATE:

5-16-2002

1R0427-85

FINAL REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	B-33	B	33	20S	36E	LEA	Length 10	Width 8	Depth 5

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER TUFFY COOPER OTHER _____

Depth to Groundwater >100 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 4/8/2002 Date Completed 4/8/2002 OCD Witness NO

Soil Excavated 25 cubic yards Excavation Length 12 Width 12 Depth 5 feet

Soil Disposed 0 cubic yards Offsite Facility N/A Location N/A

FINAL ANALYTICAL RESULTS: Sample Date 4/8/2002 Sample Depth 5'

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	<10	1100
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10	<10	1150

General Description of Remedial Action: Delineated vertical and lateral extent.

Found impact below NMOCD TPH guidelines. Installed a compacted clay barrier and water proof junction box. Backfilled with blended soil.

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
SIDEWALLS	4'	1000
BOTTOM	5'	1200

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

DATE May 16, 2002 PRINTED NAME D. E. Anderson
SIGNATURE *D. E. Anderson* TITLE Project Leader - Environmental

ANALYTICAL REPORT

Prepared for:

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Project: Rice Operating B-33

Order#: G0203034

Report Date: 04/17/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768
366-0804

Order#: G0203034
Project:
Project Name: Rice Operating
Location: B-33 Junc.

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.

<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>
0203034-01	4 pt Wall Comp @ 4'	SOIL	4/8/02 12:00	4/9/02 8:12	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0203034-02	5 pt Bottom Comp @ 5'	SOIL	4/8/02 12:00	4/9/02 8:12	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 8 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0203034
Project:
Project Name: Rice Operating
Location: B-33 Junc.

Lab ID: 0203034-01
Sample ID: 4 pt Wall Comp @ 4'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		4/12/02	1	1	CK	8015M

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

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>		
0001183-02		4/10/02 19:28	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203034-02
Sample ID: 5 pt Bottom Comp @ 5'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		4/12/02	1	1	CK	8015M

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

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

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

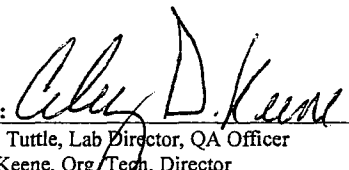
Order#: G0203034
Project:
Project Name: Rice Operating
Location: B-33 Junc.

Lab ID: 0203034-02
Sample ID: 5 pt Bottom Comp @ 5'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001183-02		4/10/02 19:50	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Approval:  4/19/02
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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0203034
Project:
Project Name: Rice Operating
Location: B-33 Junc.

Lab ID: 0203034-01
Sample ID: 4 pt 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	1100	mg/kg	1	5.00	9253	4/9/02	SB

Lab ID: 0203034-02
Sample ID: 5 pt Bottom 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	1150	mg/kg	1	5.00	9253	4/9/02	SB

Approval:

Celey D. Keene 4/19/02
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

RL = Reporting Limit N/A = Not Applicable

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

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

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203034

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001163-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001163-03		952	1029	108.1%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001163-04		952	1010	106.1%	1.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001163-05		1000	944	94.4%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203034

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-μg/kg		0001183-02			<25.0		
Ethylbenzene-μg/kg		0001183-02			<25.0		
Toluene-μg/kg		0001183-02			<25.0		
p/m-Xylene-μg/kg		0001183-02			<25.0		
o-Xylene-μg/kg		0001183-02			<25.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-μg/kg		0001183-03		100	113	113.0%	
Ethylbenzene-μg/kg		0001183-03		100	102	102.0%	
Toluene-μg/kg		0001183-03		100	100	100.0%	
p/m-Xylene-μg/kg		0001183-03		200	220	110.0%	
o-Xylene-μg/kg		0001183-03		100	102	102.0%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-μg/kg		0001183-04		100	111	111.0%	1.8%
Ethylbenzene-μg/kg		0001183-04		100	96	96.0%	6.1%
Toluene-μg/kg		0001183-04		100	110	110.0%	9.5%
p/m-Xylene-μg/kg		0001183-04		200	200	100.0%	9.5%
o-Xylene-μg/kg		0001183-04		100	101	101.0%	1.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-μg/kg		0001183-05		100	115	115.0%	
Ethylbenzene-μg/kg		0001183-05		100	109	109.0%	
Toluene-μg/kg		0001183-05		100	114	114.0%	
p/m-Xylene-μg/kg		0001183-05		200	230	115.0%	
o-Xylene-μg/kg		0001183-05		100	107	107.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203034

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001143-01			<5.00		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001143-02		5000	5050	101.1%	
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203019-01	53	500	558	101.1%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203019-01	53	500	558	101.1%	0.1%

EME B-33 Jet. Box Upgrade



Old Junction Box



NORM Removal



New Plumbing

EME B-33 Jet. Box Upgrade



Remediation



New Box Construction



Completed Junction Box