

1R - 427 - 75

REPORTS

DATE:

4-12-2002

1R042775

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	M-9-6	M	9	20S	37E	LEA	Length	Width	Depth

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER S & W CATTLE CO OTHER _____

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

Date Started 03/21/2002 Date Completed 03/21/2002 OCD Witness NO

Soil Excavated 100 cubic yards Excavation Length 20 Width 12 Depth 16 feet

Soil Disposed _____ cubic yards Offsite Facility _____ Location _____

FINAL ANALYTICAL RESULTS: Sample Date 03/21/2002 Sample Depth 16'

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	292
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10	81	97

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

Vertical delineation found a decline in chlorides from 750 ppm @ 10' bgs to 100 ppm @ 16' bgs.

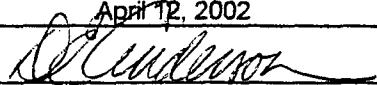
These results indicate impact did not reach groundwater. The excavated soil was blended with fresh soil to 300 ppm chlorides and backfilled. This site is no longer a junction and does not require a box.

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
SIDEWALLS	5'	300
BOTTOM	16'	100
Vertical Trench	5'	350
	8'	700
	10'	750
	12'	750
	14'	400
	16'	100

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

DATE April 12, 2002 PRINTED NAME D. E. Anderson

SIGNATURE  TITLE Project Leader - Environmental

ANALYTICAL REPORT

Prepared for:

LOGAN ANDERSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Project: Rice Operating

M-9-6

Order#: G0202886

Report Date: 03/27/2002

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#: G0202886
Project:
Project Name: Rice Operating
Location: M-9-6

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>
0202886-01	Vert. @ 16' (Bottom)	SOIL	03/21/2002 15:00	03/21/2002 17:00	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8015M						
8021B/5030 BTEX						
Chloride						
0202886-02	Wall Sample @ 5'	SOIL	03/21/2002 15:30	03/21/2002 17:00	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 4.0 C			
8015M						
8021B/5030 BTEX						
Chloride						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

LOGAN ANDERSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0202886
Project:
Project Name: Rice Operating
Location: M-9-6

Lab ID: 0202886-01
Sample ID: Vert. @ 16' (Bottom)

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		03/22/2002	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	80.7	10.0
GRO, C6-C12	<10	10.0
TOTAL, C6-C35	80.7	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>		
0000951-02		03/22/2002 15:33	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: 0202886-02
Sample ID: Wall Sample @ 5'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		03/22/2002	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	<10	10.0
GRO, C6-C12	<10	10.0
TOTAL, C6-C35	<10	10.0

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

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

LOGAN ANDERSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0202886
Project:
Project Name: Rice Operating
Location: M-9-6

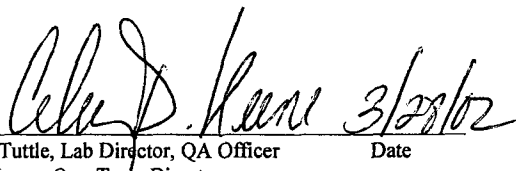
Lab ID: 0202886-02
Sample ID: Wall Sample @ 5'

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>
0000951-02		03/22/2002 15:54	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:


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

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

LOGAN ANDERSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0202886
Project:
Project Name: Rice Operating
Location: M-9-6

Lab ID: 0202886-01
Sample ID: Vert. @ 16' (Bottom)

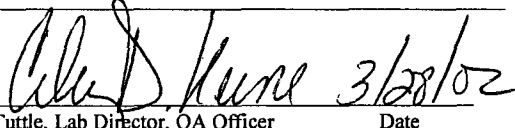
Test Parameters

<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	96.7	mg/kg	1	5.0	9253	03/26/2002	CK

Lab ID: 0202886-02
Sample ID: Wall Sample @ 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	292	mg/kg	1	5.0	9253	03/26/2002	CK

Approval:  3/28/02

Raland K. Tuttle, Lab Director, QA Officer
Caley D. Keene, Org. Tech. Director
Jeanne McMurrey, Hefg. Tech. Director
Irene Perry, QA Assistant
Sandra Biezugbe, Lab Tech.
Curt Cowdrey, Lab Tech.
Sara Molina, Lab Tech.

Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0202886

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0000967-02			<10		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0202886-02	0	952	991	104.1%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0202886-02	0	952	1008	105.9%	1.7%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0000967-05		1000	1139	113.9%	0.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0202886

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0000951-02			<25.0		
Ethylbenzene-µg/kg	0000951-02			<25.0		
Toluene-µg/kg	0000951-02			<25.0		
p/m-Xylene-µg/kg	0000951-02			<25.0		
o-Xylene-µg/kg	0000951-02			<25.0		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0202886-02	0	100	115	115.0%	
Ethylbenzene-µg/kg	0202886-02	0	100	112	112.0%	
Toluene-µg/kg	0202886-02	0	100	115	115.0%	
p/m-Xylene-µg/kg	0202886-02	0	200	230	115.0%	
o-Xylene-µg/kg	0202886-02	0	100	112	112.0%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0202886-02	0	100	115	115.0%	0.0%
Ethylbenzene-µg/kg	0202886-02	0	100	112	112.0%	0.0%
Toluene-µg/kg	0202886-02	0	100	115	115.0%	0.0%
p/m-Xylene-µg/kg	0202886-02	0	200	236	118.0%	2.6%
o-Xylene-µg/kg	0202886-02	0	100	111	111.0%	0.9%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0000951-05		100	87.5	87.5%	0.0%
Ethylbenzene-µg/kg	0000951-05		100	87.4	87.4%	0.0%
Toluene-µg/kg	0000951-05		100	87.8	87.8%	0.0%
p/m-Xylene-µg/kg	0000951-05		200	183	91.5%	0.0%
o-Xylene-µg/kg	0000951-05		100	87.4	87.4%	0.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0202886

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0000976-01			<5.0		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0202888-01	74	5000	4800	94.3%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0202888-01	74	5000	5000	97.7%	3.5%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0000976-04		5000	5000	101.%	0.%

Phone: 915-563-1800
Fax: 915-569-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Logan Anderson

Company Name

RE Environmental

Company Address:

City/State/Zip:

Telephone No:

Sampler Signature:

[Signature]

Project Name: Rice Operating

Project #:

121226-1007-11

Project Loc:

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