

1R - 427 - 72

REPORTS

DATE:

5-16-2002

1R0427-72

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	G-32	G	32	19S	37E	LEA	Length	Width	Depth

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER _____ ED JOHNSTON _____ OTHER _____

Depth to Groundwater _____ 28 _____ feet NMOCD SITE ASSESSMENT RANKING SCORE: _____ 20 _____

Date Started _____ 03/13/2002 _____ Date Completed _____ 03/14/2002 _____ OCD Witness _____ NO _____

Soil Excavated _____ 100 _____ cubic yards Excavation Length _____ 20 _____ Width _____ 20 _____ Depth _____ 7 _____ feet

Soil Disposed _____ 84 _____ cubic yards Offsite Facility _____ J&L LANDFARM _____ Location _____ MONUMENT, NM _____

FINAL ANALYTICAL RESULTS: Sample Date _____ 03/13/2002 _____ 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 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	27.9	354
BOTTOM	<0.025	<0.025	<0.025	<0.025	<50	51.6	149
Vertical @ 11'	<0.025	<0.025	<0.025	<0.025	<10	<10	334

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

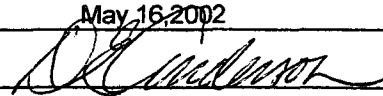
CHLORIDE FIELD TESTS

Vertical trench @ 11' found 38 ppm TPH and 250 ppm chlorides. Installed a compacted clay barrier. This site is no longer a junction and does not require a box. Backfilled with clean soil. Natural attenuation will remediate the remaining hydrocarbon.

LOCATION	DEPTH	mg/kg
SIDEWALLS	6'	1000
BOTTOM	7'	1200
Vertical trench	7'	200
	9'	200
	11'	250

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 _____  _____ TITLE _____ Project Leader - Environmental _____

ANALYTICAL REPORT

Prepared for:

Derek Robinson
RE Environmental
P.O. Box 13418
Odessa, TX 79764

Project: Rice *G-32*
Order#: G0202823
Report Date: 03/20/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

RE Environmental
P.O. Box 13418
Odessa, TX 79764
366-0804

Order#: G0202823
Project:
Project Name: Rice
Location: G-32

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>
0202823-01	Vert. @ 11'	SOIL	03/13/2002 11:00	03/13/2002 16:30	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 15.5 C		
	8015M TPH GRO/DRO					
	8021B/5030 BTEX					
	Chloride					
0202823-02	4 pt. Wall Comp. @ 6'	SOIL	03/13/2002 13:00	03/13/2002 16:30	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 15.5 C		
	8015M TPH GRO/DRO					
	8021B/5030 BTEX					
	Chloride					
0202823-03	5 pt. Bottom Comp. @ 7'	SOIL	03/13/2002 14:00	03/13/2002 16:30	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 15.5 C		
	8015M TPH GRO/DRO					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Derek Robinson
RE Environmental
P.O. Box 13418
Odessa, TX 79764

Order#: G0202823
Project:
Project Name: Rice
Location: G-32

Lab ID: 0202823-01
Sample ID: Vert. @ 11'

8015M TPH GRO/DRO

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>
		03/14/2002	1	1	CK	8015M
		15:33				

Parameter	Result mg/kg	RL
GRO, C6-C12	<10	10.0
DRO, >C12-C28	<10	10.0
Total C6-C28	<10	10.0

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>
0000910-02		03/18/2002	1	25	CK	8021B
		10:00				

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: 0202823-02
Sample ID: 4 pt. Wall Comp. @ 6'

8015M TPH GRO/DRO

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>
		03/14/2002	1	1	CK	8015M
		15:45				

Parameter	Result mg/kg	RL
GRO, C6-C12	<10	10.0
DRO, >C12-C28	27.9	10.0
Total C6-C28	27.9	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 79764

Order#: G0202823
Project:
Project Name: Rice
Location: G-32

Lab ID: 0202823-02
Sample ID: 4 pt. Wall Comp. @ 6'

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>
0000910-02		03/18/2002 14:25	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: 0202823-03
Sample ID: 5 pt. Bottom Comp. @ 7'

8015M TPH GRO/DRO

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>
		03/14/2002 15:55	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<50	50.0
DRO, >C12-C28	51.6	50.0
Total C6-C28	51.6	50.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Derek Robinson
RE Environmental
P.O. Box 13418
Odessa, TX 79764

Order#: G0202823
Project:
Project Name: Rice
Location: G-32

Lab ID: 0202823-03
Sample ID: 5 pt. Bottom Comp. @ 7'

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>
0000910-02		03/18/2002 14:47	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:

R. K. Tuttle
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.

3-20-02
Date

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 79764

Order#: G0202823
Project:
Project Name: Rice
Location: G-32

Lab ID: 0202823-01
Sample ID: Vert. @ 11'

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	334	mg/kg	1	5.00	9253	03/18/2002	SB

Lab ID: 0202823-02
Sample ID: 4 pt. Wall 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	354	mg/kg	1	5.00	9253	03/18/2002	SB

Lab ID: 0202823-03
Sample ID: 5 pt. Bottom 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	149	mg/kg	1	5.00	9253	03/18/2002	SB

Approval:

Raland K. Tuttle 3-20-02
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.

RL = Reporting Limit N/A = Not Applicable

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ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M TPH GRO/DRO

Order#: G0202823

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0000871-02			<10		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0202809-05	0	952	942	98.9%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0202809-05	0	952	940	98.7%	0.2%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0000871-05		1000	1039	103.9%	0.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0202823

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-μg/kg	0000910-02			<25.0		
Ethylbenzene-μg/kg	0000910-02			<25.0		
Toluene-μg/kg	0000910-02			<25.0		
p/m-Xylene-μg/kg	0000910-02			<25.0		
o-Xylene-μg/kg	0000910-02			<25.0		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-μg/kg	0202823-02	0	100	99.5	99.5%	
Ethylbenzene-μg/kg	0202823-02	0	100	102	102.2%	
Toluene-μg/kg	0202823-02	0	100	102	102.2%	
p/m-Xylene-μg/kg	0202823-02	0	200	211	105.5%	
o-Xylene-μg/kg	0202823-02	0	100	100	100.0%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-μg/kg	0202823-02	0	100	96.7	96.7%	2.9%
Ethylbenzene-μg/kg	0202823-02	0	100	98.6	98.6%	3.4%
Toluene-μg/kg	0202823-02	0	100	98.6	98.6%	3.4%
p/m-Xylene-μg/kg	0202823-02	0	200	205	102.5%	2.9%
o-Xylene-μg/kg	0202823-02	0	100	98	98.0%	2.0%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-μg/kg	0000910-05		100	98.8	98.8%	0.0%
Ethylbenzene-μg/kg	0000910-05		100	102	102.2%	0.0%
Toluene-μg/kg	0000910-05		100	102	102.2%	0.0%
p/m-Xylene-μg/kg	0000910-05		200	210	105.0%	0.0%
o-Xylene-μg/kg	0000910-05		100	100	100.0%	0.0%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0202823

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0000902-01			<5.00		
CONTROL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0000902-02		5000	5050	101.1%	
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0202812-01	886	556	1450	101.4%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0202812-01	886	556	1460	103.2%	0.7%



J & L LANDFARM, INC.

P.O. BOX 356
HOBBS, NEW MEXICO 88241-0356
PHONE (505) 393-9697 • PERMIT # NM-01-0023

0226

Generator/Company RICE OPERATING CO.

Authorized Representative DONNIE ANDERSON

Originating Site G-32
5-32 T195 R-37E

Transporter R&E CONSTRUCTION

Authorized Representative Paul Robinson

Brief Description of Material NON HAZ SOIL

Estimated Volume 84 YARDS

TPH SEE TEST

BE-TEX 1 - 1 -

CERTIFICATE OF CHEMICAL ANALYSIS (if required) N/A

Lee M. Roberts
FACILITY AUTHORIZED REPRESENTATIVE

MARCH 14, 2002
DATE

EME G-32 Jct. Box Upgrade



After Remediation
(No Junction Box)