

1R - 426-43

REPORTS

DATE:

10/29/2002

IR-426-43

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Blinebry-Drinkard	K-17-2	K	17	21 S	37 E	Lea	Length No Box	Width XXX	Depth XXX

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Millard-Deck Estate _____ OTHER _____

Depth to Groundwater 70 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 9/25/2002 Date Completed 10/1/2002 OCD Witness No

Soil Excavated 450 cubic yards Excavation Length 30 Width 30 Depth 14 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 9/27/2002 Sample Depth 14 ft

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	354
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	284

General Description of Remedial Action: A new poly line was re-plumbed straight through this location where a new box is unnecessary. Visual TPH was found below the old box to 7' BGS. Chloride impact remained below 1000 ppm in all directions with the exception of the west side. The west was delineated to 20' west where chlorides dissipated at the vegetation line. All measurable TPH and chloride impact was removed producing a 30' x 30' x 14' excavation. The soil was landfarmed at the location. A 20 mil poly liner was installed at the bottom of the excavation and it was then backfilled with the remediated soil that field tested 1500 ppm TPH and 340 chlorides. The liner insures that the remaining TPH will not endanger groundwater before it naturally attenuates.

cc: lab results

CHLORIDE FIELD TESTS

LOCATION	DEPTH	ppm
Vertical	5	405
	9	413
	13	212
10' S	9	169
10' E	9	445
10' W	5	1605
15' W	5	1379
20' W	5	415
15' N	5	744
	13	655

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

DATE 10-29-02 PRINTED NAME Kristin Farris
SIGNATURE Kristin Farris TITLE Environmental Projects Scientist

ANALYTICAL REPORT

Prepared for:

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

Project: K-17-2
PO#:
Order#: G0204661
Report Date: 10/04/2002

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#: G0204661
Project:
Project Name: K-17-2
Location:

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>
0204661-01	4 pt. Wall Composite	SOIL	9/27/02	9/27/02 15:50	4 oz Glass	None
	<u>Lab Testing:</u>	Rejected: No		Temp: 22C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0204661-02	5 pt. Bottom Composite	SOIL	9/27/02	9/27/02 15:50	4 oz Glass	None
	<u>Lab Testing:</u>	Rejected: No		Temp: 22C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79763

Order#: C0204661
Project:
Project Name: K-17-2
Location:

Lab ID: 0204661-01
Sample ID: 4 pt. Wall Composite

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		9/30/02	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

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003280-02		10/1/02 20:57	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	94%	80	120

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#: G0204661
Project:
Project Name: K-17-2
Location:

Lab ID: 0204661-02
Sample ID: 5 pt. Bottom Composite

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		9/30/02	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

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>		
0063280-02		10/1/02 21:20	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	90%	80	120
Bromofluorobenzene	93%	80	120

Approval: Jeanne McMurray 10-07-02
 Roland K. Tuttle, Lab Director, QA Officer Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurray, 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

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

Order#: G0204661
Project:
Project Name: K-17-2
Location:

Lab ID: 0204661-01
Sample ID: 4 pt. Wall 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	354	mg/kg	1	20	9253	10/4/02	SB

Lab ID: 0204661-02
Sample ID: 5 pt. Bottom 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	284	mg/kg	1	20	9253	10/4/02	SB

Approval: Jeanne McMurrey 10-07-02
Raland K. Tuttle, Lab Director, QA Officer
Celcy 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#: G0204661

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003265-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003265-03		952	836	87.8%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003265-04		952	867	91.1%	3.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003265-05		1000	860	86.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204661

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003280-02			<0.025		
Ethylbenzene-mg/kg		0003280-02			<0.025		
Toluene-mg/kg		0003280-02			<0.025		
p/m-Xylene-mg/kg		0003280-02			<0.025		
o-Xylene-mg/kg		0003280-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204636-01	0	0.1	0.096	96.0%	
Ethylbenzene-mg/kg		0204636-01	0	0.1	0.109	100.0%	
Toluene-mg/kg		0204636-01	0	0.1	0.100	100.0%	
p/m-Xylene-mg/kg		0204636-01	0	0.2	0.212	106.0%	
o-Xylene-mg/kg		0204636-01	0	0.1	0.099	99.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204636-01	0	0.1	0.094	94.0%	2.1%
Ethylbenzene-mg/kg		0204636-01	0	0.1	0.102	102.0%	2.0%
Toluene-mg/kg		0204636-01	0	0.1	0.098	98.0%	2.0%
p/m-Xylene-mg/kg		0204636-01	0	0.2	0.219	109.5%	3.2%
o-Xylene-mg/kg		0204636-01	0	0.1	0.101	101.0%	2.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003280-05		0.1	0.090	90.0%	
Ethylbenzene-mg/kg		0003280-05		0.1	0.094	94.0%	
Toluene-mg/kg		0003280-05		0.1	0.094	94.0%	
p/m-Xylene-mg/kg		0003280-05		0.2	0.201	100.5%	
o-Xylene-mg/kg		0003280-05		0.1	0.094	94.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G6204661

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003347-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204661-01	354	1000	1350	99.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204661-01	354	1000	1330	97.6%	1.5%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003347-04		5000	4960	59.2%	

**12600 West I-20 East
Odessa, Texas 79763**

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Doct Dobson

4.17.2

Reinforcement

Project #:

Company Address:

Project Loc:

PO#

Fax No:

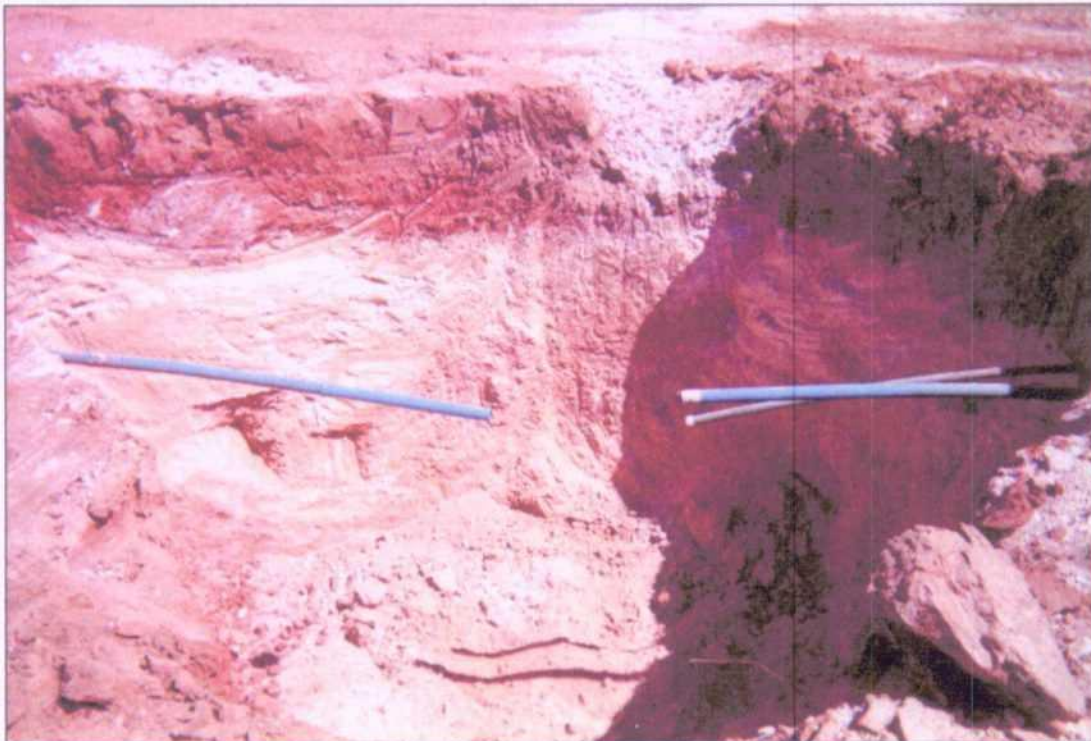
Sampler Signature:

[illegible]

K-17-2 jct. box upgrade



Impact Delineation



Excavation Complete

K-17-2 jct. box upgrade



20 mil poly liner



Complete & Backfilled (no junction box required)