

1R - 427-27

REPORTS

DATE:

3-19-2003

1R0427-27

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	C-12-2	C	12	20 S	36 E	Lea	Length	Width	Depth
							11	5	6

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Charcie Byrd OTHER _____

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

Date Started 3/3/2003 Date Completed 3/3/2003 OCD Witness No

Soil Excavated 72 cubic yards Excavation Length 8 Width 18 Depth 8 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 3/3/2003 Sample Depth 8' bgs

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	118
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	32.2
REMEDIATED	<0.025	<0.025	<0.025	<0.025	<10.0	40.6	142

General Description of Remedial Action: TPH ceased vertically at 6' bgs and
chloride impact stopped at 8' bgs. The walls were extended as space allowed, producing a
8' x 18' x 8' excavation. The soil was landfarmed on site and then backfilled into the excavation.
A water-tight junction box has been built over the location. The remediation activity is not
considered a threat to groundwater, livestock, or public health. Any residual TPH is expected to
naturally attenuate.

cc: lab results, photos

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	4	600
	6	500
	8	75
4' N	6	200
4' S	6	100
9' E	6	200
9' W	6	75
Bottom Comp.	8	75
Remed. Comp.	n/a	175

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

DATE 3/19/2003 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Projects Scientist

EME jct. C-12-2



Excavation



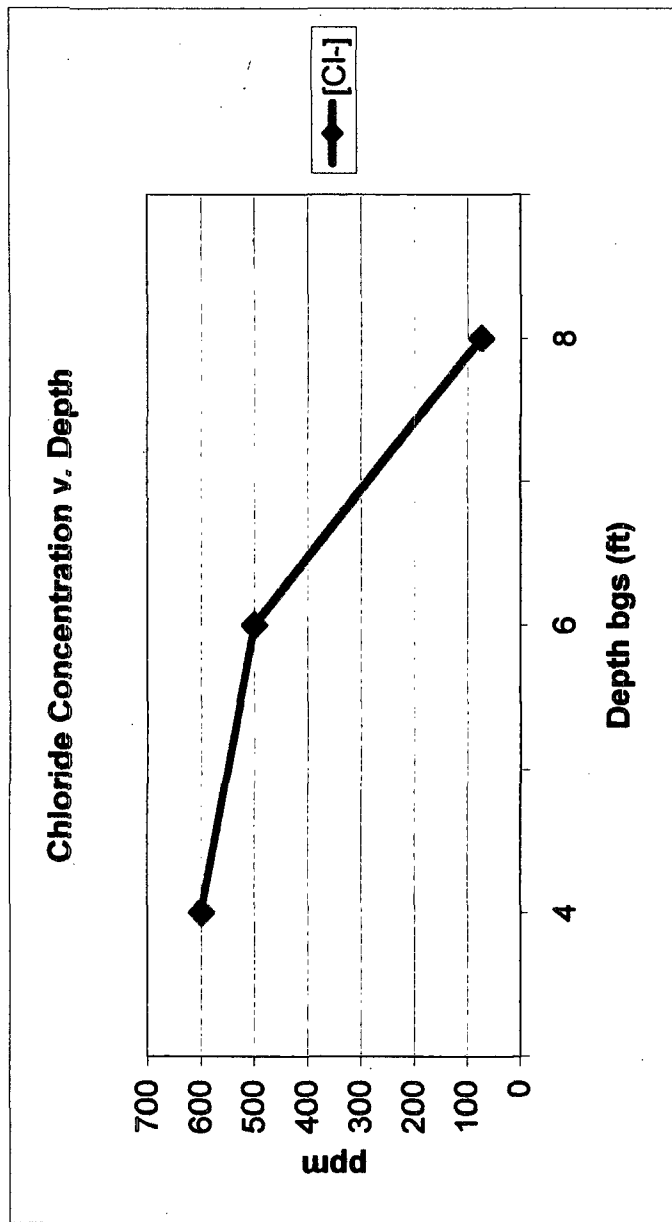
CHLORIDE CONCENTRATION CURVE

RICE Operating Company

EME jct. C-12-2

T20S, R36E

Depth bgs (ft)	[Cl ⁻] ppm
4	600
6	500
8	75



Groundwater = 31 ft

ANALYTICAL REPORT

Prepared for:

DONNIE ANDERSON
RICE OPERATING CORP.
122 WEST TAYLOR
HOBBS, NM 88240

Project: C-12-2

PO#:

Order#: G0305866

Report Date: 03/05/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

RICE OPERATING CORP.
122 WEST TAYLOR
HOBBS, NM 88240

Order#: G0305866
Project:
Project Name: C-12-2
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>
0305866-01	5 pt Bottom Comp.	SOIL	3/3/03 14:30	3/4/03 8:15	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 18 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0305866-02	Remediated Pile Comp.	SOIL	3/3/03 14:30	3/4/03 8:15	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 18 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0305866-03	4 pt. Wall Comp. @ 6'	SOIL	3/3/03 14:00	3/4/03 8:15	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 18 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON
RICE OPERATING CORP.
122 WEST TAYLOR
HOBBS, NM 88240

Order#: G0305866
Project:
Project Name: C-12-2
Location: EME

Lab ID: 0305866-01
Sample ID: 5 pt Bottom Comp.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		3/4/03	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	87%	70	130
1-Chlorooctadecane	75%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004839-02		3/4/03 16:59	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	93%	80	120
Bromofluorobenzene	99%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON
RICE OPERATING CORP.
122 WEST TAYLOR
HOBBS, NM 88240

Order#: G0305866
Project:
Project Name: C-12-2
Location: EME

Lab ID: 0305866-02
Sample ID: Remediated Pile Comp.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		3/4/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	40.6	10.0
TOTAL, C6-C35	40.6	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	92%	70	130
1-Chlorooctadecane	79%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004839-02		3/4/03 17:19	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	92%	80	120
Bromofluorobenzene	97%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON
RICE OPERATING CORP.
122 WEST TAYLOR
HOBBS, NM 88240

Order#: G0305866
Project:
Project Name: C-12-2
Location: EME

Lab ID: 0305866-03
Sample ID: 4 pt. Wall Comp. @ 6'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		3/4/03	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	84%	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>		
0004839-02		3/4/03 17:39	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	90%	80	120
Bromofluorobenzene	97%	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

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON
RICE OPERATING CORP.
122 WEST TAYLOR
HOBBS, NM 88240

Order#: G0305866
Project:
Project Name: C-12-2
Location: EME

Lab ID: 0305866-01
Sample ID: 5 pt Bottom Comp.

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	32.2	mg/kg	1	20.0	9253	3/4/03	CK

Lab ID: 0305866-02
Sample ID: Remediated Pile Comp.

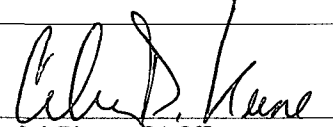
Test Parameters

<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	20.0	9253	3/4/03	CK

Lab ID: 0305866-03
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	118	mg/kg	1	20.0	9253	3/4/03	CK

Approval:  3/5/03

Raland K. Tuttle, Lab Director, QA Officer

Date

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#: G0305866

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004840-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305866-01	0	952	813	85.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305866-01	0	952	861	90.4%	5.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004840-05		1000	821	82.1%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305866

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	97.0%	
Toluene-mg/kg		0305835-02	0	0.1	0.100	100.0%	
Ethylbenzene-mg/kg		0305835-02	0	0.1	0.102	102.0%	
p/m-Xylene-mg/kg		0305835-02	0	0.2	0.210	105.0%	
o-Xylene-mg/kg		0305835-02	0	0.1	0.103	103.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305835-02	0	0.1	0.098	98.0%	1.0%
Toluene-mg/kg		0305835-02	0	0.1	0.100	100.0%	0.0%
Ethylbenzene-mg/kg		0305835-02	0	0.1	0.101	101.0%	1.0%
p/m-Xylene-mg/kg		0305835-02	0	0.2	0.208	104.0%	1.0%
o-Xylene-mg/kg		0305835-02	0	0.1	0.102	102.0%	1.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004839-05		0.1	0.098	98.0%	
Toluene-mg/kg		0004839-05		0.1	0.102	102.0%	
Ethylbenzene-mg/kg		0004839-05		0.1	0.102	102.0%	
p/m-Xylene-mg/kg		0004839-05		0.2	0.211	105.5%	
o-Xylene-mg/kg		0004839-05		0.1	0.105	105.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0305866

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004831-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305866-01	32.2	250	274	96.7%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305866-01	32.2	704	717	97.3%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004831-04		5000	4870	97.4%	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Sampler Signature:

Donald

Special Instructions				Sample Containers Intact? ☐ Y ☒ N			
				Temperature Upon Receipt:			
				Laboratory Comments:			
Relinquished by:				Received by:		Time	
Date		Time		Date		Time	
Relinquished by:				Received by ELOT:		Time	
Date		Time		Date		Time	
3-4-03				D.L. Clark		0805	