1R - 427 - 54

REPORTS

DATE:

2-3-2004

EME C-33

IR0427-12
54

DISCLOSURE REPORT

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	C-33	C	33	20S	36E	Lea	Eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Dale Cooper Family Trust OTHER _____

Depth to Groundwater 170 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 7/28/2003 Date Completed 8/1/2003 OCD Witness No

Soil Excavated 64 cubic yards Excavation Length 12 Width 12 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: **Sample Date** 7/28/2003 **Sample Depth** 12 ft 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
Vertical @ 12 ft	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	691
Soil Bore @ 75 ft	XXX	XXX	XXX	XXX	XXX	XXX	1695

General Description of Remedial Action: This junction box site was delineated with a backhoe and samples were tested regularly for chloride and TPH. A 12 x 12 x 12-ft deep excavation yielded no significant trends of decline of chloride concentrations vertically or laterally. There were no indications of TPH or VOC's and lab results confirmed concentrations well below NMOCD guidelines. The excavation was backfilled with the excavated soil. A soil bore was initiated on 1/13/2004 to determine the vertical extent of chloride impact. The bore was advanced to 75 ft BGS and still no conclusive trend of declination was observed (see graph) The bore hole was backfilled with the drill cuttings and an identification plate was secured to the surface for further assessment in the future. This junction will be eliminated with a line replacement in 2004.

ADDITIONAL EVALUATION IS *LOW* PRIORITY.

enclosures: lab results, photos, chloride graphs, bore log

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	8	300
	10	300
	12	400
7 ft East	10	1700
5 ft North	10	500
5 ft West	10	700
7 ft South	10	5500
Soil Bore	20	6621
	50	2790
	75	1501

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

DATE 2/3/2004 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Project Scientist

**** This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.***

EME jct. C-33

Undisturbed Junction Box 7/25/2003

Excavation July 2003

Delineation Soil Bore 1/13/2004

Backfilled to the pipeline 8/1/2003

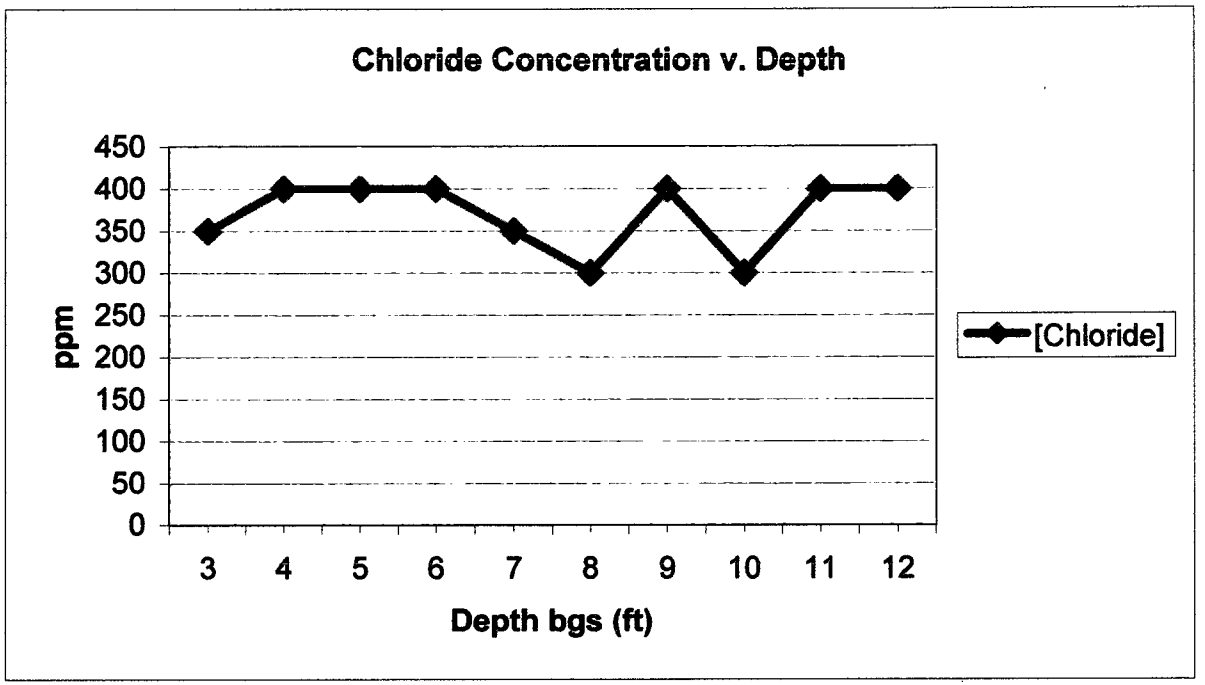
EME jct. C-33

T20S, R36E

Vertical delineation with backhoe at jct.

Depth bgs (ft)	[Cl-] ppm
3	350
4	400
5	400
6	400
7	350
8	300
9	400
10	300
11	400
12	400

Groundwater = 170 ft



SOIL BORE LOG
K. Farris
RICE Operating Company

Logger:	Joe Gatts; Mort Bates	**Client:**	**Well ID:**
Driller:	Atkins Engineering Associates, Inc.	RICE Operating Company	
Drilling Method:	Hollow Stem Auger	**Project Name:**	
Start Date:	1/13/2004	jct. C-33	
End Date:	1/13/2004	**Location:**	**SB-1**
Notes:	Approximately 10 ft South of junction TD = 75 ft Groundwater = 170 ft	EME SWD System Sec. 33, T20S, R36E Lea County, NM	

Depth (feet)	Split Spoon chloride	Split Spoon PID	Description	Lithology	Additional Notes
0.0			0-4 ft Silty Sand w/Broken Caliche: loose, reddish brown, dry		
5.0			4-8 ft Caliche: firm, tan, dry		bore hole was backfilled with drill cuttings
10.0			8-40 ft Silty Fine Sand: loose, tan dry		
15.0	5953	no odor			
20.0	6621	no odor			
25.0					
30.0	5707	no odor			
35.0					
40.0	970	no odor	40-45 ft Well-graded Sand: loose, tan, damp		
45.0	712	no odor	45-50 ft Silty Broken Sandstone: firm, tan, dry		
50.0	2790	no odor	50-75 ft Well-graded Sand: loose, tan, damp		
55.0					
60.0	1748	no odor			
65.0	2440	no odor			
70.0					
75.0	1501	no odor			lab = 1695 ppm Cl^-

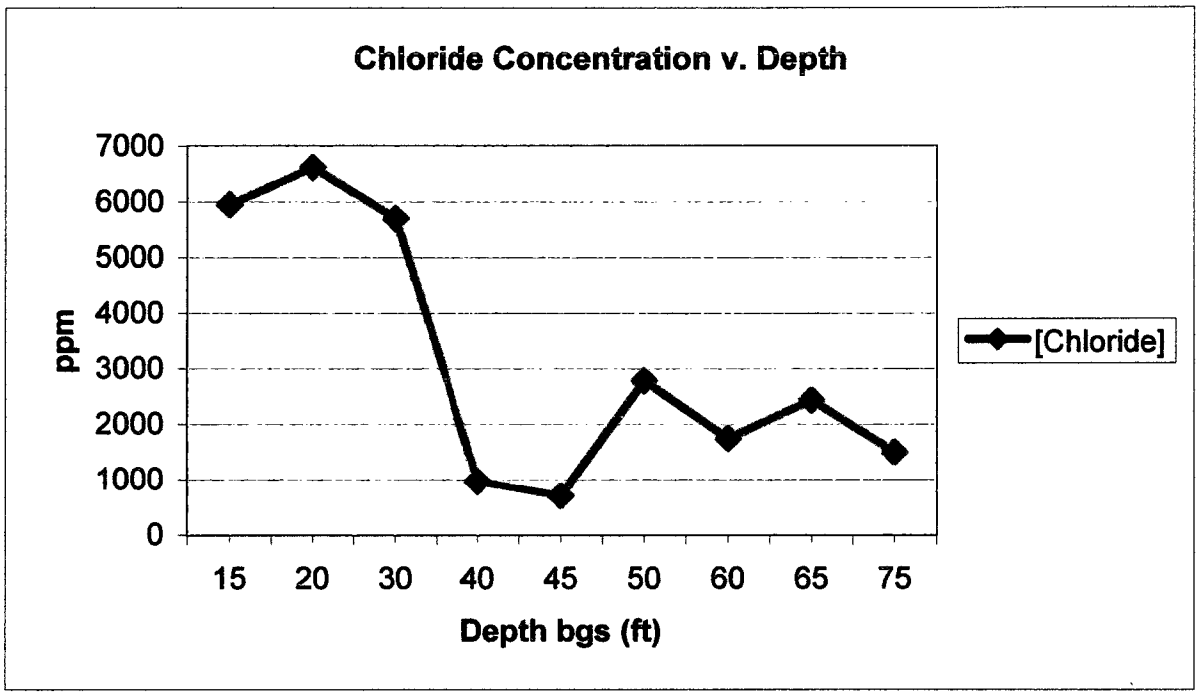
EME jct. C-33

T20S, R36E

SOIL BORE 10 ft SOUTH OF JCT.

Depth bgs (ft)	[Cl-] ppm
15	5953
20	6621
30	5707
40	970
45	712
50	2790
60	1748
65	2440
75	1501

Groundwater = 170 ft



CARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: KRISTIN FARRIS
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

Receiving Date: 01/14/04
Reporting Date: 01/15/04
Project Number: NOT GIVEN
Project Name: C-33
Project Location: EME

Analysis Date: 01/15/04
Sampling Date: 01/13/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl^- (mg/Kg)
H8363-1	SOIL BORE 75' BGS	1695
Quality Control		980
True Value QC		1000
% Recovery		98.0
Relative Percent Difference		3.0

METHOD: Standard Methods	4500-ClB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Amy Hill
Chemist

11/15/04
Date

H8363

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 (915) 673-7001 Fax (915) 673-7020

101 East Marland, Hobbs, NM 88240 (505) 393-2326 Fax (505) 393-2476

Page ____ of ____

Company Name:	RICE Operating	BILL TO	
Project Manager:	Kristin Farris	P.O. #:	
Address:	122 W Taylor	Company:	RICE
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	393-9174 Fax #: 397-1471	Address:	
Project #:	Project Owner:	City:	
Project Name:	C-33	State: Zip:	
Project Location:	EME	Phone #:	
Sampler Name:	J. Gatts	Fax #:	

FOR LAB USE ONLY				MATRIX						PRESERV.			SAMPLING		ANALYSIS REQUEST
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Cl.
H18363	Soil Bore 75'bgs	G	1			X					X		11304	330	†

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

Sampler Relinquished:	Date: 11/7/04	Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #:
	Time: 230		Fax Result: ☒ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By: (Lab Staff)	REMARKS: Fax to RICE
	Time:		
Delivered By: (Circle One)	Sample Condition: Cool ☒ Yes ☐ No; Intact ☒ Yes ☐ No	CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

ANALYTICAL REPORT

Prepared for:

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

Project:	C-33
PO#:	
Order#:	G0307125
Report Date:	08/04/2003

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating
122 W. Taylor
Hobbs, NM 88240
505-397-1471

Order#: G0307125
Project:
Project Name: C-33
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.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0307125-01	Vertical 1 @ 12' (Bottom)	SOIL	7/28/03 15:00	8/1/03 8:00	4 oz glass	icc

Lab Testing: **Rejected:** No **Temp:** 3.0 C

8015M
8021B/5030 BTEX
Chloride

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0307125
Project:
Project Name: C-33
Location: EME

Lab ID: 0307125-01
Sample ID: Vertical 1 @ 12' (Bottom)

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		8/1/03	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	120%	70	130
1-Chlorooctadecane	89%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006402-02		8/4/03 11:03	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	88%	80	120
Bromofluorobenzene	84%	80	120

Approval: Celey D. Keene 08/05/03
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.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris
Rice Operating
122 W. Taylor
Hobbs, NM 88240

Order#: G0307125
Project:
Project Name: C-33
Location: EME

Lab ID: 0307125-01
Sample ID: Vertical 1 @ 12' (Bottom)

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	691	mg/kg	1	20	9253	8/4/03	CK

Approval: Celey D. Keene 08/05/03
Date

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.

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0307125

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006407-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006407-03		952	853	89.6%	
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0307124-02	0	952	1171	123.%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0307124-02	0	952	1186	124.6%	1.3%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006407-05		1000	1003	100.3%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307125

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0006402-02			<0.025		
Toluene-mg/kg	0006402-02			<0.025		
Ethylbenzene-mg/kg	0006402-02			<0.025		
p/m-Xylene-mg/kg	0006402-02			<0.025		
o-Xylene-mg/kg	0006402-02			<0.025		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0307124-02	0	0.1	0.084	84.%	
Toluene-mg/kg	0307124-02	0	0.1	0.084	84.%	
Ethylbenzene-mg/kg	0307124-02	0	0.1	0.086	86.%	
p/m-Xylene-mg/kg	0307124-02	0	0.2	0.174	87.%	
o-Xylene-mg/kg	0307124-02	0	0.1	0.087	87.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0307124-02	0	0.1	0.089	89.%	5.8%
Toluene-mg/kg	0307124-02	0	0.1	0.089	89.%	5.8%
Ethylbenzene-mg/kg	0307124-02	0	0.1	0.090	90.%	4.5%
p/m-Xylene-mg/kg	0307124-02	0	0.2	0.201	100.5%	14.4%
o-Xylene-mg/kg	0307124-02	0	0.1	0.100	100.%	13.9%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0006402-05		0.1	0.091	91.%	
Toluene-mg/kg	0006402-05		0.1	0.091	91.%	
Ethylbenzene-mg/kg	0006402-05		0.1	0.092	92.%	
p/m-Xylene-mg/kg	0006402-05		0.2	0.186	93.%	
o-Xylene-mg/kg	0006402-05		0.1	0.090	90.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0307125

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0006411-01			<20.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0006411-02		5000	4960	99.2%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0006411-03		5000	4960	99.2%	0.%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0006411-04		5000	4870	97.4%	

Environmental Lab of Texas I, Ltd.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris
Company Name: Rice Operating
Company Address: 122 W Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No: _____ Fax No: _____
Sampler Signature:

Project Name: C-33
Project #: _____
Project Loc: EME
PO #: _____

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify)	Analyze For: TCLP: TPH: 418.1 (8015M) 1005 1006	Analyze For: TOTAL: Cations (Ca, Mg, Na, K)	Anions (Cl, SO_4, CO_3, HCO_3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Gamma		RUSH TAT (Pre-Schedule)	Standard TAT
0307125																													
01	vertical @ 12' (Bottom)	7-28-03	3:00 P	1	X									X		X		X					X						

Special Instructions: Fax to Rice

Sample Containers Intact? (Y) N
Temperature Upon Receipt: 3.0°C
Laboratory Comments: 40z glass

Relinquished by:	Date	Time	Received by:	Date	Time
	8-1-03	7:00A			
Relinquished by:	Date	Time	Received by ELOT: Tom Anderson	8/1/03	0800