

1R - 427 - 52

REPORTS

DATE:

3-3-2004

EME M-35-1 boat
(east)

1R0 427-52

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX CLOSURE REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	M-35-1 (east)	M	35	19S	36E	Lea	Moved 135 ft southeast		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER _____ DLD Corporation _____ OTHER _____

Depth to Groundwater _____ 35 _____ feet NMOCD SITE ASSESSMENT RANKING SCORE: _____ 20 _____

Date Started _____ 7/31/2003 _____ Date Completed _____ 8/1/2003 _____ OCD Witness _____ No _____

Soil Excavated _____ 20 _____ cubic yards Excavation Length _____ 15 _____ Width _____ 3 _____ Depth _____ 12 _____ feet

Soil Disposed _____ 36 _____ cubic yards Offsite Facility _____ South Monument _____ Location _____ Monument, NM _____

FINAL ANALYTICAL RESULTS: Sample Date _____ 7/31/2003 _____ 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
BOTTOM @ 12 ft	<0.025	<0.025	<0.025	<0.025	<10.0	25.2	1930

General Description of Remedial Action: M-35-1 was a junction box that was next to a boot (M-35-2). A vertical delineation trench was initiated at this box to determine the extent of chloride impact. Field tests indicate that chloride concentrations exhibit a conclusive decline with depth, indicative of non-saturated conditions (see graph). TPH concentrations at 12 ft BGS were well below NMOCD guidelines. No further excavation was conducted because the adjacent M-35-2 box had a chloride concentration curve that did not decline with depth and will need further delineation in the future. The trench was backfilled with the excavated soil and was capped with approximately 3 ft of clean topsoil.

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	6	4711
	7	2950
	8	2500
	9	2000
	10	2000
	11	1800
	12	1600

cc: chloride graph, lab results, photos, disposal manifests

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

DATE _____ 3/3/2004 _____ PRINTED NAME _____ Kristin Farris _____
SIGNATURE _____ *Kristin Farris* _____ TITLE _____ Project Scientist _____

EME jct. M-35-1



Box site prior to excavation; lumber removed

7/29/2003



Close-up of box in foreground



Vertical Excavation trench

7/31/2003



Identification plates marking locations of the boxes

CHLORIDE CONCENTRATION CURVE

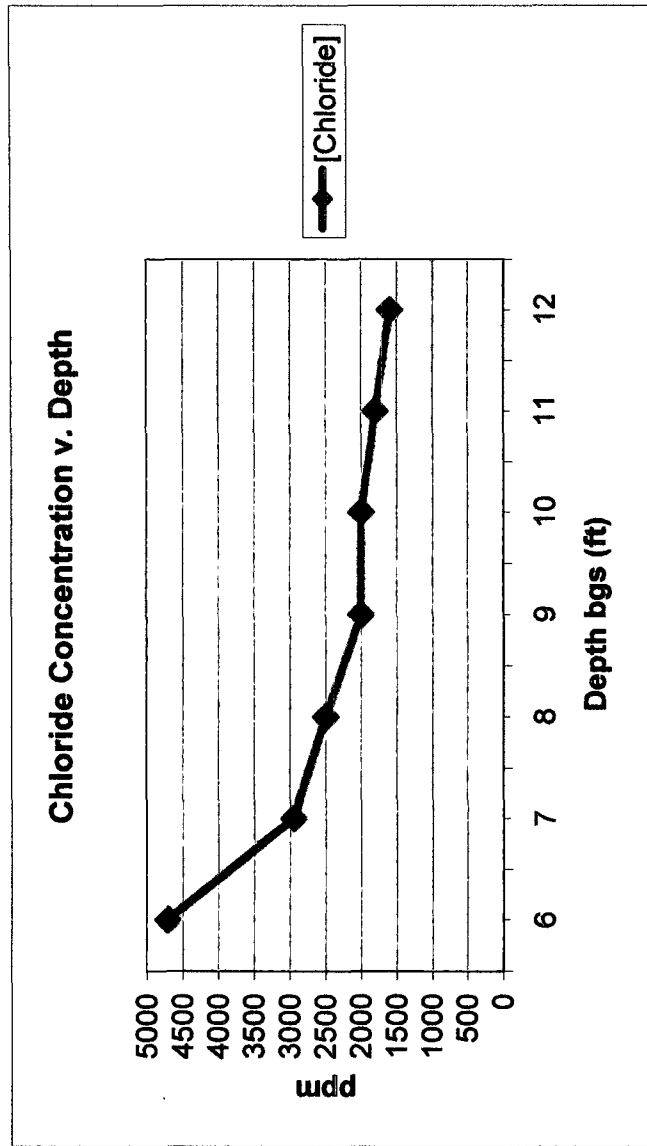
RICE Operating Company

EME jct. M-35-1(east)

T19S, R36E

Depth bgs (ft)	[Cl-] ppm
6	4711
7	2950
8	2500
9	2000
10	2000
11	1800
12	1600

Groundwater = 35 ft



ANALYTICAL REPORT

Prepared for:

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

Project: M-35 -1 East

PO#:

Order#: G0307124

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#: G0307124
Project:
Project Name: M-35
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>
0307124-01	Vertical 1 @12' Bottom	SOIL	7/31/03 11:00	8/1/03 8:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0307124-02	Vertical 2 @ 12' Bottom	SOIL	7/31/03 13:00	8/1/03 8:00	4 oz glass	ice
	<u>Lab Testing:</u>	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#: G0307124
Project:
Project Name: M-35
Location: EME

Lab ID: 0307124-01
Sample ID: Vertical 1 @12' Bottom

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		8/1/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	25.2	10.0
TOTAL, C6-C35	25.2	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	115%	70	130
1-Chlorooctadecane	97%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006402-02		8/2/03 13:37	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	89%	80	120

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

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0307124
Project:
Project Name: M-35
Location: EME

Lab ID: 0307124-02
Sample ID: Vertical 2 @ 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	107%	70	130
1-Chlorooctadecane	89%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006402-02		8/2/03 19:07	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	80%	80	120
Bromofluorobenzene	85%	80	120

Approval:

Raland K. Tuttle, Lab Director, QA Officer
Coley 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

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

Order#: G0307124
Project:
Project Name: M-35
Location: EME

Lab ID: 0307124-01 -
Sample ID: Vertical 1 @12' Bottom

Test Parameters

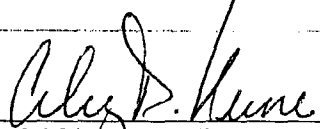
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	1930	mg/kg	1	20	9253	8/4/03	CK

Lab ID: 0307124-02
Sample ID: Vertical 2 @ 12' 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	2690	mg/kg	1	20	9253	8/4/03	CK

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

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8015M**

Order#: G0307124

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	123.0%	
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#: G0307124**

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#: G0307124

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%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0006411-04		5000	4870	97.4%	

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 Harris

Project Name:

M-35

Company Name Rice Operating

Project #:

Company Address: 122 W Taylor

Project Loc:

CityStateZip. Hecks, N.M. 880-1176

PO #

Telephone No.:

Fax No:

Sampler Signature:

John

Fat to Rice

Relinquished by:

Date _____

Time

Received by:

Date _____

Time

Relinquished by:

Date _____

Time

Received by ELDT

174

11

Sample Containers Intact?

Laboratory Comments:

610

402 glass

1-Clean @ 12 yds out

SOUTH MONUMENT SURFACE WASTE FACILITY

TICKET NO # 9222

LEASE OPERATOR

Rice Operating Corporation

ORIGINATING LOCATION: ~~BRIEF~~

Sec T R

EME M 35-35 19S 37E

TRANSPORTER NAME & ADDRESS

Dirt Works / Bandaera

Attn: KENA KAY COOPER

DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

QUANTITY

12

FACILITY CONTACT:

Kene J. Cooper
SIGNATURE OF CONTACT

8/12/03
DATE

CELL NUMBER MATERIAL WAS PLACE IN LANDFARM: B-1

NAME OF TRANSPORTER (DRIVER):

Michael Dyer
SIGNATURE OF DRIVER

8-12-03
DATE

DISPOSAL SITE

South Monument Surface Waste Facility
P. O. Box 418
Hobbs, NM 88241-0418
Sec 25 T20S R36E N/2NE/4

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

Kene J. Cooper
FACILITY REPRESENTATIVE

8/12/03
DATE

1-Clean @ 12yds out

SOUTH MONUMENT SURFACE WASTE FACILITY

TICKET NO # 9223

LEASE OPERATOR

Rice Operating Corporation

ORIGINATING LOCATION: ~~BRITTS~~

Sec T R

EMEM-35 SEC35 19S 36E

TRANSPORTER NAME & ADDRESS

DIRT WORKS / BANDERA

Attn: KENA KAY COOPER

DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

QUANTITY

12

FACILITY CONTACT:

[Signature]
SIGNATURE OF CONTACT

8/12/03
DATE

CELL NUMBER MATERIAL WAS PLACE IN LANDFARM: B-1

NAME OF TRANSPORTER (DRIVER):

Michael Beghee
SIGNATURE OF DRIVER

8-12-03
DATE

DISPOSAL SITE

South Monument Surface Waste Facility
P. O. Box 418
Hobbs, NM 88241-0418
Sec 25 T20S R36E N/2NE/4

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

[Signature]
FACILITY REPRESENTATIVE

8/12/03
DATE

1-Clean @ 12 yds out

SOUTH MONUMENT SURFACE WASTE FACILITY

TICKET NO # 9224

LEASE OPERATOR

Rice Operating Corporation

ORIGINATING LOCATION: ~~BRETT B~~

EME m35

Sec 35 T 19s R 36E

TRANSPORTER NAME & ADDRESS

DIRT WORKS / Banded

Attn: KENA KAY COOPER

DESCRIPTION OF WASTE

Non-Hazardous Hydrocarbons

QUANTITY

12 yds

FACILITY CONTACT:

[Signature]

SIGNATURE OF CONTACT

8/12/03

DATE

CELL NUMBER MATERIAL WAS PLACED IN LANDFARM: B-1

NAME OF TRANSPORTER (DRIVER):

Michael Beghee

SIGNATURE OF DRIVER

8-12-03

DATE

DISPOSAL SITE

South Monument Surface Waste Facility
P. O. Box 418
Hobbs, NM 88241-0418
Sec 25 T20S R36E N/2NE/4

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

[Signature]

FACILITY REPRESENTATIVE

8/12/03

DATE