

1R - 427-214

**REPORTS**

**DATE:**

2006

EME Amerada Mattern

1R-427-214

RECEIVED

APR - 4 2007  
Environmental Bureau  
Oil Conservation Division

CLOSURE

RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	Amerada Mattern boot	K	20	19S	37E	Lea	eliminated--no box		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater 40 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 6/14/2005 Date Completed 12/28/2005 NMOCD Witness no

Soil Excavated 506 cubic yards Excavation Length 35 Width 30 Depth 13 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 12/7/2005 Sample Depth 13 ft

5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH and chloride laboratory test results completed by using an approved laboratory and testing procedures pursuant to NMOCD guidelines.

CHLORIDE FIELD TESTS

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.9	<10.0	20.7	107
BOTTOM COMP.	3.0	<10.0	18.1	19.6
BACKFILL COMP.	8.5	<10.0	19.7	140

LOCATION	DEPTH (ft)	ppm
4-wall comp.	n/a	330
bottom comp.	12	233
backfill comp.	n/a	245

General Description of Remedial Action:

This junction was eliminated and the pipelines were capped. The box lumber was removed and the site was delineated using a backhoe while chloride field tests and PID screenings were performed at regular intervals on the soil samples creating a 35 x 30 x 13-ft-deep excavation. Chloride field tests exhibited relatively low concentrations that generally declined with depth and breadth. Composite samples were collected from the final excavation for confirmation of the field tests. The excavated soil was blended on site and then backfilled into the excavation. Additional fill was needed so clean topsoil was imported to level the excavation to the surrounding terrain. The disturbed area was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate. Remaining hydrocarbon will naturally attenuate. These activities are not a threat to groundwater, human health, or the environment.

enclosures: chloride graph, photos, lab results, PID field screenings

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

SITE SUPERVISOR Jorge Hernandez SIGNATURE not available COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE *Kristin Pope*  
DATE 5/11/2006 TITLE Project Scientist



undisturbed junction with boot

3/18/2004

# **EMME Amerada Mattern boot**

Unit 'K', Section 20, T19S, R37E



box removed



back hoe delineation

6/14/2005



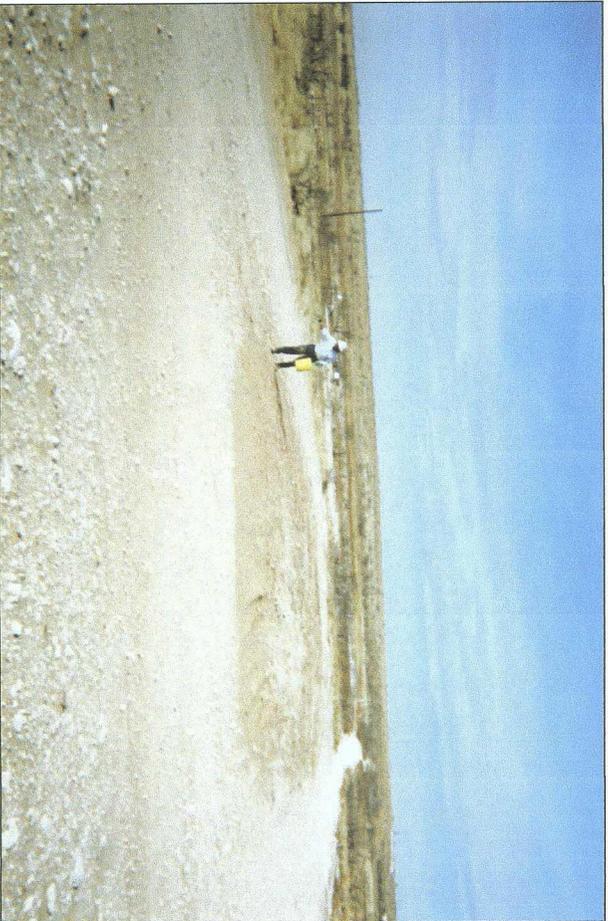
track hoe delineation

12/7/2005



spreading imported topsoil on backfilled site

2/8/2006



seeding surface

3/7/2006

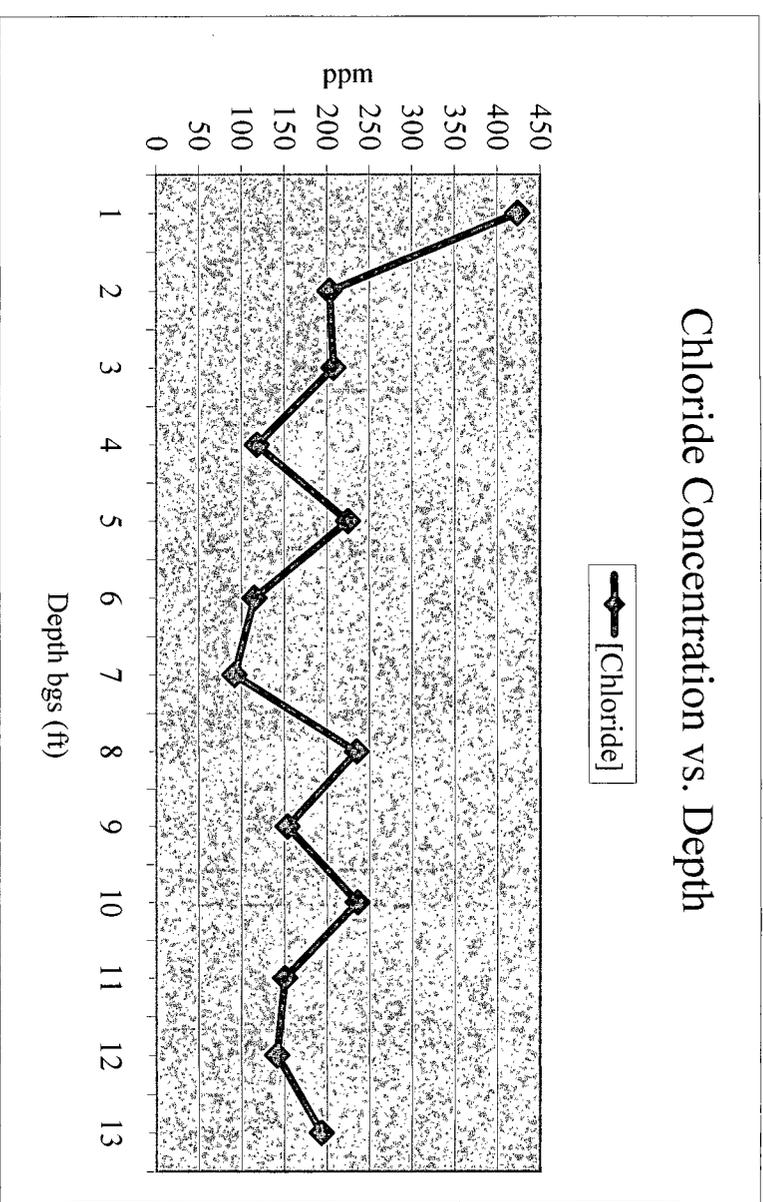
# EME Amerada Mattern boot

Unit 'K', Sec. 20, T19S, R37E

15 ft EAST of junction

Depth: bgs (ft)	[Cl] ppm
1	424
2	203
3	208
4	118
5	225
6	115
7	91.7
8	235
9	154
10	236
11	151
12	142
13	194

Groundwater = 40 ft



30 x 35 x 13 ft

122 WEST TAYLOR  
HOBBS, NEW MEXICO 88240  
PHONE: (505) 393-9174 FAX: (505) 397-1471  
VOC FIELD TEST REPORT FORM  
MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S  
CALIBRATION GAS  
GAS COMPOSITION: ISOBUTYLENE  
AIR  
LOT NO: 05-2859  
EXP. DATE: 1-19-07  
METER READING  
ACCURACY: 91.6

SERIAL NO: ~~104412~~ 7-19-05  
100 PPM  
BALANCE  
FILL DATE: 7-19-05  
ACCURACY: ± 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	Amerada Matter Boat	K	20	19S	37W

BETEX Study

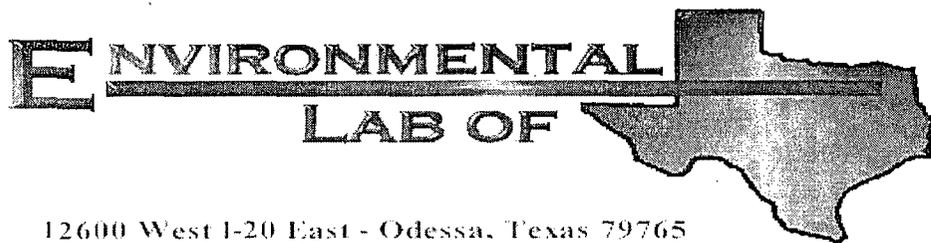
SAMPLE	PID RESULT	SAMPLE	PID RESULT
N. Wall 1	5.4		
S. Wall 2	2.7		
E. Wall 3	2.6		
W. Wall 4	5.3		
Bottom Comp @ 13'	3.0		
Backfill Comp	8.5		
4 Wall Comp	0.9		

COPY

I certify that I have calibrated the above instrument in accordance to the manufacture operation manual.

[Signature]  
Signature

12-7-05  
Date



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Roy Rascon  
Rice Operating Co.  
122 W. Taylor  
Hobbs, NM 88240

COPY

Project: EME Amerada Mattern Boot

Project Number: None Given

Location: None Given

Lab Order Number: 5L08001

Report Date: 12/09/05

Rice Operating Co.  
122 W. Taylor  
Hobbs NM. 88240

Project: EME Amerada Mattern Boot  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
12/09/05 17:01

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
4 Wall Comp.	5L08001-01	Soil	12/07/05 09:05	12/08/05 08:00
Bottom Comp.	5L08001-02	Soil	12/07/05 09:00	12/08/05 08:00
Backfill	5L08001-03	Soil	12/07/05 09:10	12/08/05 08:00

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: EME Amerada Mattern Boot  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
12/09/05 17:01

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>4 Wall Comp. (5L08001-01) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL50804	12/08/05	12/09/05	EPA 8015M	
<b>Diesel Range Organics &gt;C12-C35</b>	<b>20.7</b>	10.0	"	"	"	"	"	"	
<b>Total Hydrocarbon C6-C35</b>	<b>20.7</b>	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		90.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		96.2 %	70-130		"	"	"	"	
<b>Bottom Comp. (5L08001-02) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL50804	12/08/05	12/08/05	EPA 8015M	
<b>Diesel Range Organics &gt;C12-C35</b>	<b>18.1</b>	10.0	"	"	"	"	"	"	
<b>Total Hydrocarbon C6-C35</b>	<b>18.1</b>	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		86.8 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		90.0 %	70-130		"	"	"	"	
<b>Backfill (5L08001-03) Soil</b>									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EL50804	12/08/05	12/08/05	EPA 8015M	
<b>Diesel Range Organics &gt;C12-C35</b>	<b>19.7</b>	10.0	"	"	"	"	"	"	
<b>Total Hydrocarbon C6-C35</b>	<b>19.7</b>	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		87.2 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		88.4 %	70-130		"	"	"	"	

Rice Operating Co.  
122 W. Taylor  
Hobbs NM, 88240

Project: EME Amerada Mattern Boot  
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Project Manager: Roy Rascon

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Reported:  
12/13/05 11:20

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>4 Wall Comp. (5L08001-01) Soil</b>									
Chloride	107	5.00	mg/kg	10	EL50919	12/09/05	12/09/05	EPA 300.0	
% Moisture	11.4	0.1	%	1	EL50903	12/08/05	12/09/05	% calculation	
<b>Bottom Comp. (5L08001-02) Soil</b>									
Chloride	19.6	5.00	mg/kg	10	EL50919	12/09/05	12/09/05	EPA 300.0	
% Moisture	9.7	0.1	%	1	EL50903	12/08/05	12/09/05	% calculation	
<b>Backfill (5L08001-03) Soil</b>									
Chloride	140	10.0	mg/kg	20	EL50919	12/09/05	12/09/05	EPA 300.0	
% Moisture	11.5	0.1	%	1	EL50903	12/08/05	12/09/05	% calculation	

Rice Operating Co.  
122 W. Taylor  
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Reported:  
12/09/05 17:01

**Organics by GC - Quality Control  
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch EL50804 - Solvent Extraction (GC)**

**Blank (EL50804-BLK1)**

Prepared & Analyzed: 12/08/05

Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	49.5		mg/kg	50.0		99.0	70-130			
Surrogate: 1-Chlorooctadecane	48.7		"	50.0		97.4	70-130			

**LCS (EL50804-BS1)**

Prepared & Analyzed: 12/08/05

Gasoline Range Organics C6-C12	401	10.0	mg/kg wet	500		80.2	75-125			
Diesel Range Organics >C12-C35	498	10.0	"	500		99.6	75-125			
Total Hydrocarbon C6-C35	899	10.0	"	1000		89.9	75-125			
Surrogate: 1-Chlorooctane	53.3		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			

**Calibration Check (EL50804-CCV1)**

Prepared & Analyzed: 12/08/05

Gasoline Range Organics C6-C12	431		mg/kg	500		86.2	80-120			
Diesel Range Organics >C12-C35	545		"	500		109	80-120			
Total Hydrocarbon C6-C35	976		"	1000		97.6	80-120			
Surrogate: 1-Chlorooctane	57.8		"	50.0		116	70-130			
Surrogate: 1-Chlorooctadecane	54.9		"	50.0		110	70-130			

**Matrix Spike (EL50804-MS1)**

Source: 5L08001-01

Prepared & Analyzed: 12/08/05

Gasoline Range Organics C6-C12	429	10.0	mg/kg dry	564	ND	76.1	75-125			
Diesel Range Organics >C12-C35	560	10.0	"	564	20.7	95.6	75-125			
Total Hydrocarbon C6-C35	989	10.0	"	1130	20.7	85.7	75-125			
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.6	70-130			
Surrogate: 1-Chlorooctadecane	48.7		"	50.0		97.4	70-130			

**Matrix Spike Dup (EL50804-MSD1)**

Source: 5L08001-01

Prepared & Analyzed: 12/08/05

Gasoline Range Organics C6-C12	431	10.0	mg/kg dry	564	ND	76.4	75-125	0.465	20	
Diesel Range Organics >C12-C35	557	10.0	"	564	20.7	95.1	75-125	0.537	20	
Total Hydrocarbon C6-C35	988	10.0	"	1130	20.7	85.6	75-125	0.101	20	
Surrogate: 1-Chlorooctane	45.3		mg/kg	50.0		90.6	70-130			
Surrogate: 1-Chlorooctadecane	48.8		"	50.0		97.6	70-130			

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Project Manager: Roy Rascon

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Reported:  
12/09/05 17:01

**General Chemistry Parameters by EPA / Standard Methods - Quality Control  
Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EL50903 - General Preparation (Prep)</b>										
<b>Blank (EL50903-BLK1)</b> Prepared: 12/08/05 Analyzed: 12/09/05										
% Solids	100		%							
<b>Duplicate (EL50903-DUP1)</b> Source: 5L08001-01 Prepared: 12/08/05 Analyzed: 12/09/05										
% Solids	87.6		%		88.6			1.14	20	
<b>Batch EL50919 - Water Extraction</b>										
<b>Blank (EL50919-BLK1)</b> Prepared & Analyzed: 12/09/05										
Chloride	ND	0.500	mg/kg							
<b>LCS (EL50919-BS1)</b> Prepared & Analyzed: 12/09/05										
Chloride	9.17		mg/L	10.0		91.7	80-120			
<b>Calibration Check (EL50919-CCV1)</b> Prepared & Analyzed: 12/09/05										
Chloride	8.57		mg/L	10.0		85.7	80-120			
<b>Duplicate (EL50919-DUP1)</b> Source: 5L08001-01 Prepared & Analyzed: 12/09/05										
Chloride	102	5.00	mg/kg		106			3.85	20	

Rice Operating Co.  
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Hobbs NM, 88240

Project: EME Amerada Mattern Boot  
Project Number: None Given  
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:  
12/09/05 17:01

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By: Raland K Tuttle Date: 12-13-05

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.



## Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: Line Op.

Date/Time: 12/8/05 8:00

Order #: SL0001

Initials: CR

### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	2,0	C
Shipping container/cooler in good condition?	Yes	No		
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	Yes	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	Yes	No		
Container labels legible and intact?	Yes	No		
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samples in proper container/bottle?	Yes	No		
Samples properly preserved?	Yes	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	Yes	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time?	Yes	No		
VOC samples have zero headspace?	Yes	No	Not Applicable	

Other observations:

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### Variance Documentation:

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Regarding:

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Corrective Action Taken:

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