

1R - 427 - 157

REPORTS

DATE:

3-8-05

EME JCF M-19

1R0427-157

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

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

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

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

Date Started 9/29/2004 Date Completed 10/27/2004 NMOCD Witness no

Soil Excavated 12 cubic yards Excavation Length 9 Width 3 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 10/1/2004 Sample Depth 12 ft

TPH and chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

CHLORIDE FIELD TESTS

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
GRAB @ 12 ft BELOW JUNCTION	0.1	<10.0	<10.0	<20.0

LOCATION	DEPTH (ft)	ppm
vertical below junction box	4	116
	5	142
	6	146
	7	117
	8	144
	9	143
	10	145
	11	115
	12	115
background	1	85

General Description of Remedial Action: This junction box was located within an unfenced production battery that is no longer in use. The surface surrounding the box contained gravel from the facility and vegetation was not present. The junction was eliminated and the box lumber was removed. A vertical delineation trench was made with a backhoe at the box site.

Chloride field tests and PID screenings were conducted every vertical foot of the trench at 4-12 ft.

Chloride field tests yielded concentrations that were very low and similar to background levels. All PID readings were 0.1 ppm. The soil under the box consisted of brown sand and caliche at 4-11 ft with no staining or signs of chloride or hydrocarbon contamination. At 12 ft BGS, sandstone was encountered. Since the hydrocarbon concentrations were non-detect and below NMOCD guidelines and chloride concentrations were less than 250 ppm, the 12-ft-deep trench was backfilled with the excavated soils.

enclosures: chloride graph, photos, lab results

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

SITE SUPERVISOR Joe Gatts SIGNATURE not available COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 3/8/2005 TITLE Project Scientist



undisturbed junction box (looking North)

3/29/2004

EME jct. M-19

unit 'M', sec. 19, T19S, R37E



box removed; before excavation (looking South)

9/28/2004



vertical delineation trench (looking South)

9/29/2004



backfilling delineation trench (looking West)

10/27/2004



backfill complete (looking North)

10/27/2004

CHLORIDE CONCENTRATION CURVE

EMME jct. M-19

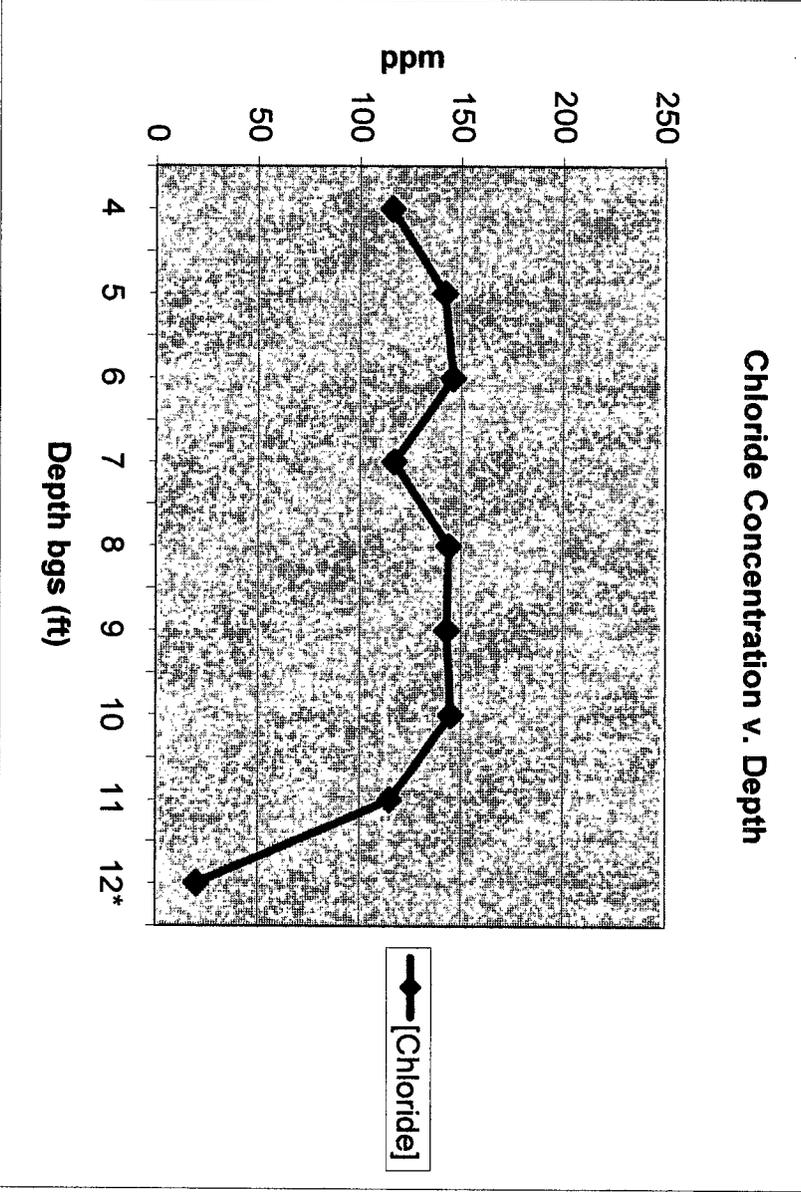
T19S, R37E

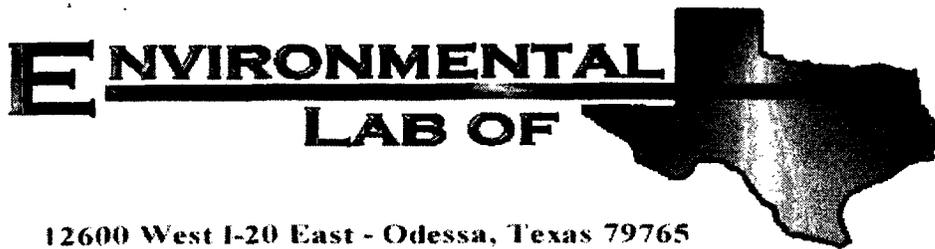
Vertical Delineation at Junction

Depth bgs (ft)	Cl ⁻ ppm
4	116
5	142
6	146
7	117
8	144
9	143
10	145
11	115
12*	20

* lab analysis yielded non-detect chloride (<20.0 ppm)

Groundwater = 40 ft





12600 West I-20 East - Odessa, Texas 79765

COPY

Analytical Report

Prepared for:

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

Project: EME Jct. M-19
Project Number: None Given
Location: None Given

Lab Order Number: 4J14001

Report Date: 10/18/04

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

Project: EME Jct. M-19
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/18/04 16:58

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Grab at Source at 12' bgs	4J14001-01	Soil	10/01/04 13:30	10/14/04 07:00

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

Project: EME Jct. M-19
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/18/04 16:58

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Grab at Source at 12' bgs (4J14001-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EJ41416	10/14/04	10/15/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
<i>Surrogate: 1-Chlorooctane</i>		104 %	70-130		"	"	"	"	
<i>Surrogate: 1-Chlorooctadecane</i>		118 %	70-130		"	"	"	"	

Rice Operating Co. 122 W. Taylor Hobbs NM, 88240	Project: EME Jct. M-19 Project Number: None Given Project Manager: Roy Rascon	Fax: (505) 397-1471 Reported: 10/18/04 16:58
--	---	---

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Grab at Source at 12' bgs (4J14001-01) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EJ41814	10/14/04	10/18/04	SW 846 9253	
% Moisture	13.0		%	1	EJ41503	10/14/04	10/15/04	% calculation	

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

Project: EME Jct. M-19
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/18/04 16:58

**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
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch EJ41416 - Solvent Extraction (GC)

Blank (EJ41416-BLK1)

Prepared: 10/14/04 Analyzed: 10/15/04

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	35.7		mg/kg	50.0		71.4	70-130			
Surrogate: 1-Chlorooctadecane	39.8		"	50.0		79.6	70-130			

LCS (EJ41416-BS1)

Prepared: 10/14/04 Analyzed: 10/15/04

Gasoline Range Organics C6-C12	450	10.0	mg/kg wet	500		90.0	75-125			
Diesel Range Organics >C12-C35	513	10.0	"	500		103	75-125			
Total Hydrocarbon C6-C35	963	10.0	"	1000		96.3	75-125			
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.4	70-130			
Surrogate: 1-Chlorooctadecane	43.4		"	50.0		86.8	70-130			

Calibration Check (EJ41416-CCV1)

Prepared: 10/14/04 Analyzed: 10/15/04

Gasoline Range Organics C6-C12	502		mg/kg	500		100	80-120			
Diesel Range Organics >C12-C35	574		"	500		115	80-120			
Total Hydrocarbon C6-C35	1080		"	1000		108	80-120			
Surrogate: 1-Chlorooctane	51.6		"	50.0		103	70-130			
Surrogate: 1-Chlorooctadecane	60.1		"	50.0		120	70-130			

Matrix Spike (EJ41416-MS1)

Source: 4J14001-01

Prepared: 10/14/04 Analyzed: 10/15/04

Gasoline Range Organics C6-C12	556	10.0	mg/kg dry	575	ND	96.7	75-125			
Diesel Range Organics >C12-C35	621	10.0	"	575	ND	108	75-125			
Total Hydrocarbon C6-C35	1180	10.0	"	1150	ND	103	75-125			
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	70-130			
Surrogate: 1-Chlorooctadecane	48.2		"	50.0		96.4	70-130			

Matrix Spike Dup (EJ41416-MSD1)

Source: 4J14001-01

Prepared: 10/14/04 Analyzed: 10/15/04

Gasoline Range Organics C6-C12	530	10.0	mg/kg dry	575	ND	92.2	75-125	4.79	20	
Diesel Range Organics >C12-C35	564	10.0	"	575	ND	98.1	75-125	9.62	20	
Total Hydrocarbon C6-C35	1090	10.0	"	1150	ND	94.8	75-125	7.93	20	
Surrogate: 1-Chlorooctane	52.1		mg/kg	50.0		104	70-130			
Surrogate: 1-Chlorooctadecane	50.0		"	50.0		100	70-130			

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ41503 - % Solids										
Blank (EJ41503-BLK1)					Prepared: 10/14/04 Analyzed: 10/15/04					
% Moisture	0.0		%							
Duplicate (EJ41503-DUP1)					Source: 4J13011-01 Prepared: 10/14/04 Analyzed: 10/15/04					
% Moisture	14.0		%		13.0			7.41	20	
Batch EJ41814 - Water Extraction										
Blank (EJ41814-BLK1)					Prepared: 10/11/04 Analyzed: 10/18/04					
Chloride	ND		20.0 mg/kg Wet							
Matrix Spike (EJ41814-MS1)					Source: 4J08006-02 Prepared: 10/11/04 Analyzed: 10/18/04					
Chloride	468		20.0 mg/kg Wet	500	0.00	93.6	80-120			
Matrix Spike Dup (EJ41814-MSD1)					Source: 4J08006-02 Prepared: 10/11/04 Analyzed: 10/18/04					
Chloride	478		20.0 mg/kg Wet	500	0.00	95.6	80-120	2.11	20	
Reference (EJ41814-SRM1)					Prepared & Analyzed: 10/18/04					
Chloride	5000		mg/kg	5000		100	80-120			

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

Project: EME Jct. M-19
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
10/18/04 16:58

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: 10-18-04

Raland K. Tuttle, Lab Manager

Celey D. Keene, Lab Director, Org. Tech Director

Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director

James L. Hawkins, Chemist/Geologist

Sandra Biezugbe, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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: Rice Operating Co.

Date/Time: 10-14-04 @ 0800

Order #: 4J14001

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="radio"/> Yes	No	0.5	C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> 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?	<input checked="" type="radio"/> Yes	No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Chain of Custody signed when relinquished and received?	<input checked="" type="radio"/> Yes	No		
Chain of custody agrees with sample label(s)	<input checked="" type="radio"/> Yes	No		
Container labels legible and intact?	<input checked="" type="radio"/> Yes	No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="radio"/> Yes	No		
Samples in proper container/bottle?	<input checked="" type="radio"/> Yes	No		
Samples properly preserved?	<input checked="" type="radio"/> Yes	No		
Sample bottles intact?	<input checked="" type="radio"/> Yes	No		
Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	No		
Sufficient sample amount for indicated test?	<input checked="" type="radio"/> Yes	No		
All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	No		
VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	No	Not Applicable	

Other observations:

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

Corrective Action Taken:
