1R - 427 - 148

REPORTS

DATE:

2-4-05

EME JCT F-10

IR0427-148

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	F-10	F	10	20S	37E	Lea	moved 10 ft south		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER S & W Cattle Co. OTHER _____

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

Date Started 7/15/2004 Date Completed 7/28/2004 OCD Witness No

Soil Excavated 66.66 cubic yards Excavation Length 15 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS:

Sample Date 7/20/2004 **Sample Depth** 12 ft

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

Sample Location	PID ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.0	<10.0	<10.0	638
BOTTOM COMP.	0.0	<10.0	<10.0	617
REMED. BACKFILL	0.0	<10.0	<10.0	415

General Description of Remedial Action: This junction box was moved 10 ft south with the pipeline replacement program. The former box location was delineated using a backhoe while chloride field tests and PID screenings were conducted at regular intervals. Chloride concentrations declined substantially with depth and breadth throughout the 15 x 10 x 12 ft deep excavation. All PID readings were 0.0 ppm and lab results confirmed non-detect TPH levels (<10.0 ppm). The excavated soil was blended on site and then backfilled into the hole. The disturbed surface is expected to return to productive capacity at a normal rate. A replacement junction box was built 10 ft south of this location.

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

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
vertical at junction box	6	6567
	7	5488
	8	3418
	9	3688
	10	3448
	11	2429
	12	2189
	13	1859
5 ft south of junction	6	359
	7	240
	8	210
	9	210
	10	210
	11	180
	12	210
4-wall comp.	n/a	689
bottom comp.	12	1409
backfill comp.	n/a	780

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

SITE SUPERVISOR Rob Elam SIGNATURE not available COMPANY Curt's Environmental–Odessa, TX

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 2/4/2005 TITLE Project Scientist

EME jct. F-10

unit 'F', sec. 10, T20S, R37E

undisturbed junction box 8/13/2003

new poly junction at new box site 10 ft south 6/9/2004

15 x 10 x 12-ft-deep excavation 6/20/2004

backfilling 7/27/2004

completed junction box 10 ft south 1/25/2005

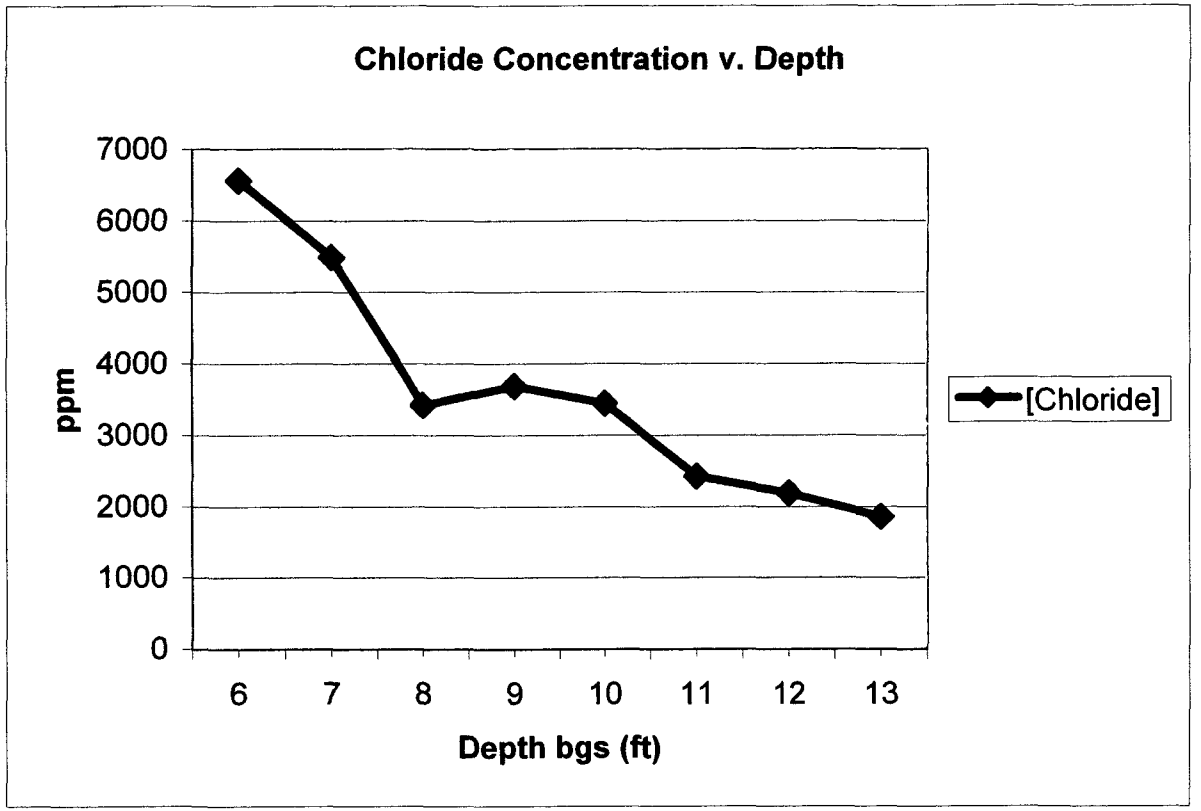
EME jct. F-10

T20S, R37E

Vertical Delineation at Source

Depth bgs (ft)	[Cl⁻] ppm
6	6567
7	5488
8	3418
9	3688
10	3448
11	2429
12	2189
13	1859

Groundwater = 20 ft



ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

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

Project: EME Jct. F-10
Project Number: None Given
Location: EME

Lab Order Number: 4G22001

Report Date: 07/26/04

Rice Operating Co.	Project: EME Jct. F-10	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	07/26/04 12:24

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom Composite	4G22001-01	Soil	07/20/04 14:35	07/22/04 09:30
Wall Composite	4G22001-02	Soil	07/20/04 14:40	07/22/04 09:30
Backfill Composite	4G22001-03	Soil	07/20/04 14:30	07/22/04 09:30

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Rice Operating Co.	Project: EME Jct. F-10	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	07/26/04 12:24

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Composite (4G22001-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG42210	07/22/04	07/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*74.4 %*	*70-130*		"	"	"	"	
Wall Composite (4G22001-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG42210	07/22/04	07/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*73.6 %*	*70-130*		"	"	"	"	
Backfill Composite (4G22001-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG42210	07/22/04	07/23/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*89.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*71.8 %*	*70-130*		"	"	"	"	

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Rice Operating Co.	Project: EME Jct. F-10	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	07/26/04 12:24

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Composite (4G22001-01) Soil									
Chloride	**617**	20.0	mg/kg Wet	2	EG42115	07/22/04	07/23/04	SW 846 9253	
% Solids	**72.0**		%	1	EG42604	07/22/04	07/22/04	% calculation	
Wall Composite (4G22001-02) Soil									
Chloride	**638**	20.0	mg/kg Wet	2	EG42115	07/22/04	07/23/04	SW 846 9253	
% Solids	**98.0**		%	1	EG42604	07/22/04	07/22/04	% calculation	
Backfill Composite (4G22001-03) Soil									
Chloride	**415**	20.0	mg/kg Wet	2	EG42115	07/22/04	07/23/04	SW 846 9253	
% Solids	**82.0**		%	1	EG42604	07/22/04	07/22/04	% calculation	

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Rice Operating Co.	Project: EME Jct. F-10	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	07/26/04 12:24

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 EG42210 - Solvent Extraction (GC)										
Blank (EG42210-BLK1)				Prepared: 07/22/04 Analyzed: 07/23/04						
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	*41.8*		*mg/kg*	*50.0*		*83.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.2*		*"*	*50.0*		*78.4*	*70-130*			
LCS (EG42210-BS1)				Prepared & Analyzed: 07/22/04						
Gasoline Range Organics C6-C12	420	10.0	mg/kg wet	500		84.0	75-125			
Diesel Range Organics >C12-C35	472	10.0	"	500		94.4	75-125			
Total Hydrocarbon C6-C35	892	10.0	"	1000		89.2	75-125			
Surrogate: 1-Chlorooctane	*44.7*		*mg/kg*	*50.0*		*89.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*43.7*		*"*	*50.0*		*87.4*	*70-130*			
Calibration Check (EG42210-CCV1)				Prepared & Analyzed: 07/22/04						
Gasoline Range Organics C6-C12	420		mg/kg	500		84.0	80-120			
Diesel Range Organics >C12-C35	509		"	500		102	80-120			
Total Hydrocarbon C6-C35	929		"	1000		92.9	80-120			
Surrogate: 1-Chlorooctane	*57.7*		*"*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
Matrix Spike (EG42210-MS1)	**Source: 4G21006-08**			Prepared: 07/22/04 Analyzed: 07/23/04						
Gasoline Range Organics C6-C12	456	10.0	mg/kg dry	538	ND	84.8	75-125			
Diesel Range Organics >C12-C35	505	10.0	"	538	ND	93.9	75-125			
Total Hydrocarbon C6-C35	961	10.0	"	1080	ND	89.0	75-125			
Surrogate: 1-Chlorooctane	*47.9*		*mg/kg*	*50.0*		*95.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.9*		*"*	*50.0*		*73.8*	*70-130*			
Matrix Spike Dup (EG42210-MSD1)	**Source: 4G21006-08**			Prepared: 07/22/04 Analyzed: 07/23/04						
Gasoline Range Organics C6-C12	444	10.0	mg/kg dry	538	ND	82.5	75-125	2.67	20	
Diesel Range Organics >C12-C35	507	10.0	"	538	ND	94.2	75-125	0.395	20	
Total Hydrocarbon C6-C35	951	10.0	"	1080	ND	88.1	75-125	1.05	20	
Surrogate: 1-Chlorooctane	*57.7*		*mg/kg*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.0*		*"*	*50.0*		*78.0*	*70-130*			

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Rice Operating Co.	Project: EME Jct. F-10	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	07/26/04 12:24

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
Batch EG42115 - Water Extraction										
Blank (EG42115-BLK1)				Prepared: 07/22/04 Analyzed: 07/23/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EG42115-MS1)		**Source: 4G21010-08**		Prepared: 07/22/04 Analyzed: 07/23/04						
Chloride	997	20.0	mg/kg Wet	500	465	106	80-120			
Matrix Spike Dup (EG42115-MSD1)		**Source: 4G21010-08**		Prepared: 07/22/04 Analyzed: 07/23/04						
Chloride	997	20.0	mg/kg Wet	500	465	106	80-120	0.00	20	
Reference (EG42115-SRM1)				Prepared: 07/22/04 Analyzed: 07/23/04						
Chloride	4890		mg/kg	5000		97.8	80-120			
Batch EG42604 - General Preparation (Prep)										
Blank (EG42604-BLK1)				Prepared & Analyzed: 07/22/04						
% Solids	100		%							
Duplicate (EG42604-DUP1)		**Source: 4G22001-01**		Prepared & Analyzed: 07/22/04						
% Solids	70.0		%		72.0			2.82	20	

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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: 7-26-04

Raland K. Tuttle, QA Officer
Celey D. Keene, Lab Director, Org. Tech Director
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sara Molina, Chemist
Sandra Biezugbe, Lab Tech.

Environmental Lab of Texas, Inc.

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: Roy Rascon
Company Name: RICE Operating
Company Address: 122 W. Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No: (505) 393-9174 Fax No: (505) 397-1471
Sampler Signature: Rob Elam

Project Name: EME Jct F-10
Project #:
Project Loc: EME
PO #: 785

4G2001

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4oz Glass	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TDS, Cl, SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	TOTAL: Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030									RUSH TAT (Pre-Schedule)	Standard TAT
-01	12' Bottom Composite	7-20-04	2:35	1	✓									✓		✓			✓														
-02	Wall Composite	7-20-04	2:40	1	✓									✓		✓			✓														
-03	Backfill Composite	7-20-04	2:30	1	✓									✓		✓			✓														

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 2.0°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
Rob Elam	7-20-04	4:50		7/21	18:00
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	7/22	9:30	Jeanne McMurry	7-22-04	0930

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

Client: Rice Operating Co.

Date/Time: 07-22-04 @ 0940

Order #: 4G22001

Initials: JMM

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:

_____

_____

_____

Variance Documentation:

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

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

_____

...OPERATING COMPANY
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: 03-2475
EXP. DATE: 10-19-05
METER READING
ACCURACY: 100.

SERIAL NO: ~~104412~~ 104550

100 PPM
BALANCE
FILL DATE: 4-19-04
ACCURACY: ± 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	F-10	F	10	20-S	37E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
North Wall Comp	0		
South Wall Comp	0		
East Wall Comp	0		
West Wall Comp	0		
Bottom Comp	0	—	
Wall Comp	0		
Back-fill Comp	0		

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

Signature

7-20-04
Date