

1R - 427 - 199

REPORTS

DATE:

4-11-05

EM Jct D-20

IR0427-199

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	D-20	D	20	19S	37E	Lea	no box-junction eliminated		

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

Depth to Groundwater 57 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 10/14/2004 Date Completed 2/21/2005 NMOCD Witness no

Soil Excavated 82 cubic yards Excavation Length 20 Width 10 Depth 10-12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 2/7/2005 Sample Depth 12 ft

Procure 3-point composite sample of bottom and 4-point composite sample of excavation sidewalls. 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
4-WALL COMP.	0.1	<10.0	124	328
BOTTOM COMP.	0.1	<10.0	<10.0	109
REMEDI. BACKFILL	0.1	<10.0	10.4	186

LOCATION	DEPTH (ft)	ppm
vertical at junction	4	119
	5	89
	6	89
	7	89
	8	419
	9	126
	10	209
4-wall comp.	n/a	262
bottom comp.	12	144
remedi. comp.	n/a	116

General Description of Remedial Action: This junction was eliminated and the pipeline was re-plumbed straight through this location. The box was removed and the site was delineated using a backhoe while PID screenings and chloride field tests were conducted at regular intervals. Rock was encountered at 10 ft BGS and the backhoe was unable to dig deeper in some places. PID readings were all relatively low with all concentrations <20.0 ppm. Chloride concentrations were also relatively low and trends of decline with depth and breadth were observed. Remaining hydrocarbon will naturally attenuate. The spoils from the 20 x 10 x 12-ft-deep excavation were blended on site and then backfilled into the hole. The disturbed surface was seeded with a blend of native vegetation on 3/18/2005 and is expected to return to productive capacity at a normal rate. This junction has been eliminated and a box no longer required at the site.

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

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 4/11/2005 TITLE Project Scientist

EME jct. D-20

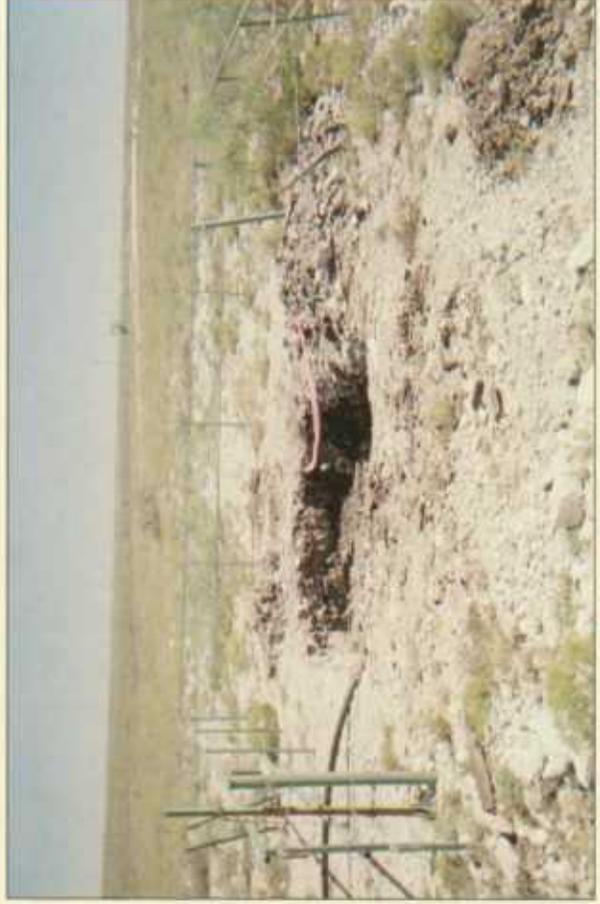
unit 'D', sec. 20, T19S, R37E



undisturbed junction box (looking north) 1/6/2004



box removed; new plumbing 8/19/2004



box removed; before excavation 10/14/2004



completing 10 x 20 x 12-ft-deep excavation

February 2005



backfilling excavation

March 2005



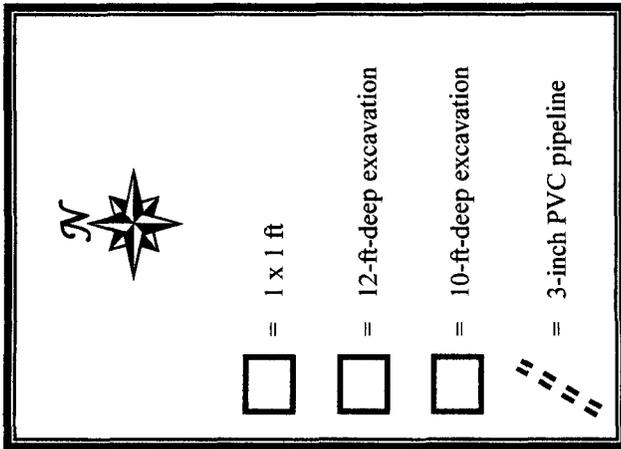
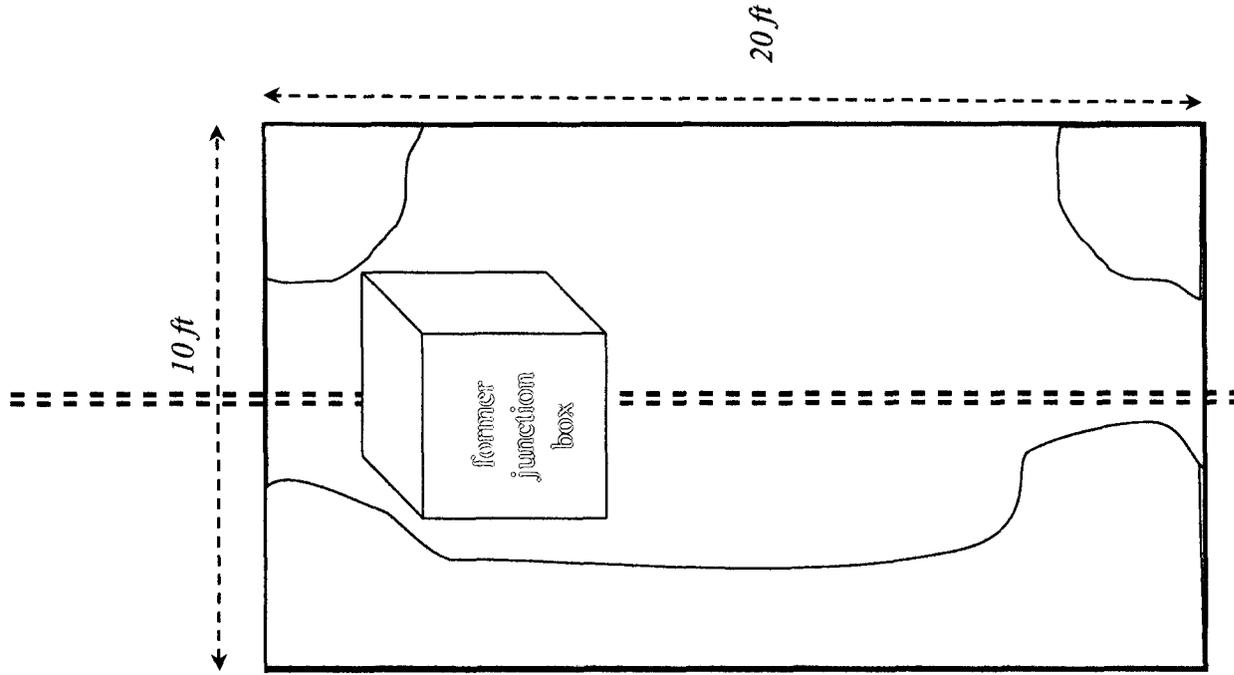
seeding disturbed surface

3/18/2005

EME jct. D-20

T22S, R37E

Plan View of 10 x 20 x 12 ft Excavation



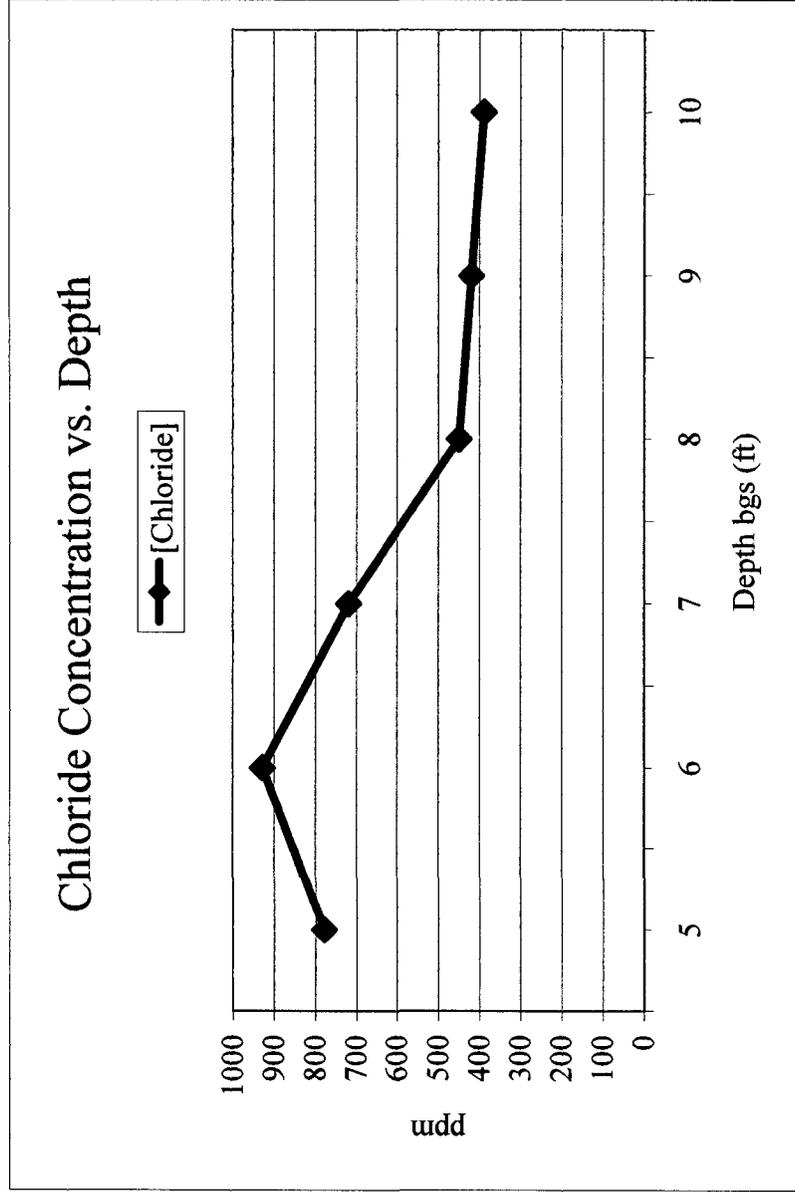
EME jct. D-20

T19S, R37E

5 ft SOUTH of junction

Depth bgs (ft)	[Cl ⁻] ppm
5	779
6	929
7	719
8	449
9	419
10	389

Groundwater = 57 ft

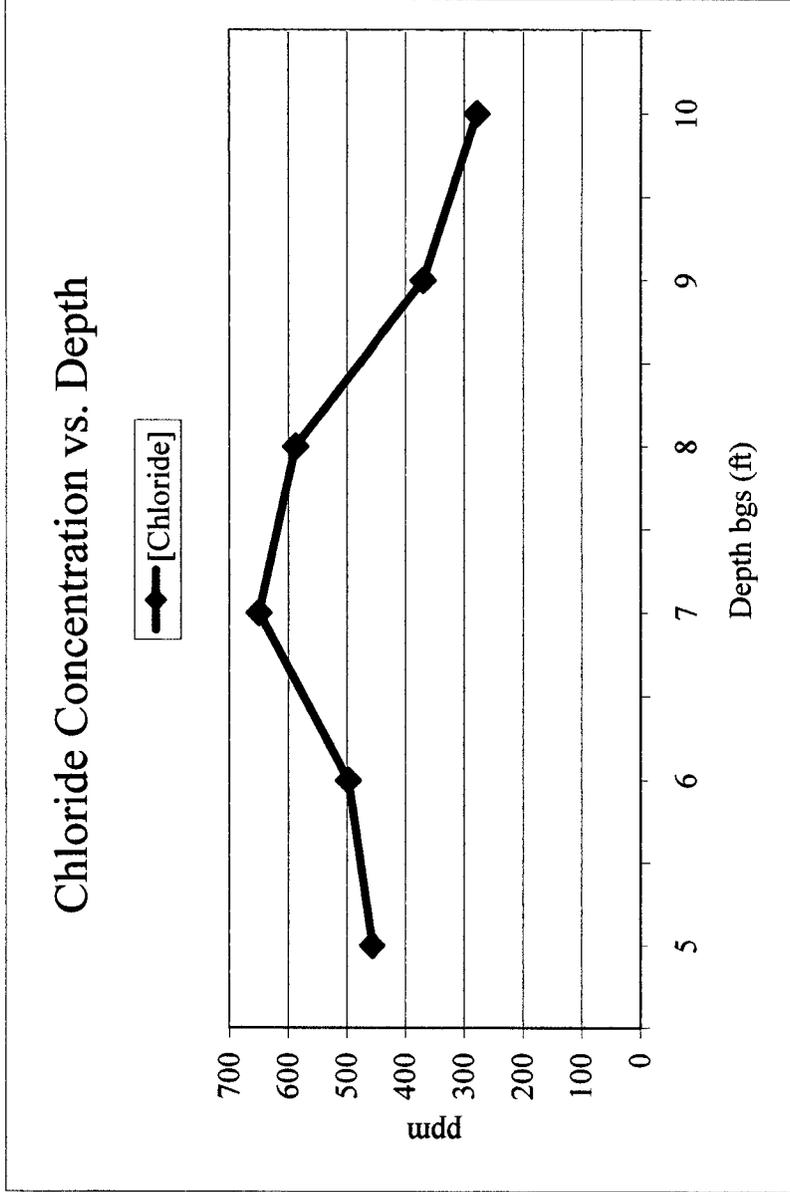


EME jct. D-20

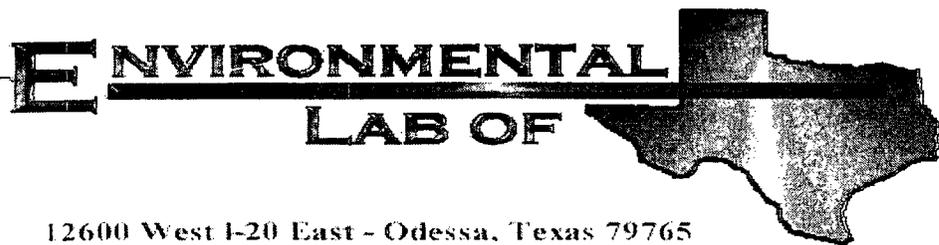
T19S, R37E

15 ft SOUTH of junction

Depth bgs (ft)	[Cl ⁻] ppm
5	457
6	498
7	650
8	588
9	370
10	278



Groundwater = 57 ft



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 D-20
Project Number: None Given
Location: None Given

Lab Order Number: 5B09002

Report Date: 02/10/05

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

Project: EME D-20
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
02/10/05 13:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Bott Comp 12'	5B09002-01	Soil	02/07/05 13:00	02/09/05 07:00
4 Wall Comp	5B09002-02	Soil	02/07/05 13:15	02/09/05 07:00
REMD. Backfill	5B09002-03	Soil	02/07/05 13:25	02/09/05 07:00

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

Project: EME D-20
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
02/10/05 13:26

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bott Comp 12' (5B09002-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB50903	02/09/05	02/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.4 %	70-130		"	"	"	"	
4 Wall Comp (5B09002-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB50903	02/09/05	02/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	124	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	124	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		103 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		81.2 %	70-130		"	"	"	"	
REMD. Backfill (5B09002-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EB50903	02/09/05	02/10/05	EPA 8015M	
Diesel Range Organics >C12-C35	10.4	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	10.4	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.0 %	70-130		"	"	"	"	

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

Project: EME D-20
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
02/10/05 13:26

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Bott Comp 12' (5B09002-01) Soil									
Chloride	109	5.00	mg/kg	10	EB50910	02/09/05	02/09/05	EPA 300.0	
% Moisture	9.5		%	1	EB51002	02/09/05	02/10/05	% calculation	
4 Wall Comp (5B09002-02) Soil									
Chloride	328	25.0	mg/kg	50	EB50910	02/09/05	02/09/05	EPA 300.0	
% Moisture	11.8		%	1	EB51002	02/09/05	02/10/05	% calculation	
REMD. Backfill (5B09002-03) Soil									
Chloride	186	20.0	mg/kg	40	EB50910	02/09/05	02/09/05	EPA 300.0	
% Moisture	13.7		%	1	EB51002	02/09/05	02/10/05	% calculation	

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

Project: EME D-20
Project Number: None Given
Project Manager: Roy Rascon

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**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 EB50903 - Solvent Extraction (GC)

Blank (EB50903-BLK1)

Prepared & Analyzed: 02/09/05

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	37.9		mg/kg	50.0		75.8	70-130			
Surrogate: 1-Chlorooctadecane	36.5		"	50.0		73.0	70-130			

Blank (EB50903-BLK2)

Prepared: 02/09/05 Analyzed: 02/10/05

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	37.9		mg/kg	50.0		75.8	70-130			
Surrogate: 1-Chlorooctadecane	39.1		"	50.0		78.2	70-130			

LCS (EB50903-BS1)

Prepared & Analyzed: 02/09/05

Gasoline Range Organics C6-C12	445	10.0	mg/kg wet	500		89.0	75-125			
Diesel Range Organics >C12-C35	472	10.0	"	500		94.4	75-125			
Total Hydrocarbon C6-C35	917	10.0	"	1000		91.7	75-125			
Surrogate: 1-Chlorooctane	37.4		mg/kg	50.0		74.8	70-130			
Surrogate: 1-Chlorooctadecane	36.9		"	50.0		73.8	70-130			

LCS (EB50903-BS2)

Prepared: 02/09/05 Analyzed: 02/10/05

Gasoline Range Organics C6-C12	432	10.0	mg/kg wet	500		86.4	75-125			
Diesel Range Organics >C12-C35	424	10.0	"	500		84.8	75-125			
Total Hydrocarbon C6-C35	856	10.0	"	1000		85.6	75-125			
Surrogate: 1-Chlorooctane	36.4		mg/kg	50.0		72.8	70-130			
Surrogate: 1-Chlorooctadecane	35.1		"	50.0		70.2	70-130			

Calibration Check (EB50903-CCV1)

Prepared & Analyzed: 02/09/05

Gasoline Range Organics C6-C12	421		mg/kg	500		84.2	80-120			
Diesel Range Organics >C12-C35	532		"	500		106	80-120			
Total Hydrocarbon C6-C35	953		"	1000		95.3	80-120			
Surrogate: 1-Chlorooctane	40.3		"	50.0		80.6	70-130			
Surrogate: 1-Chlorooctadecane	39.6		"	50.0		79.2	70-130			

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

Project: EME D-20
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
02/10/05 13:26

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 EB50903 - Solvent Extraction (GC)

Calibration Check (EB50903-CCV2)

Prepared: 02/09/05 Analyzed: 02/10/05

Gasoline Range Organics C6-C12	474		mg/kg	500		94.8	80-120			
Diesel Range Organics >C12-C35	517		"	500		103	80-120			
Total Hydrocarbon C6-C35	991		"	1000		99.1	80-120			
Surrogate: 1-Chlorooctane	39.9		"	50.0		79.8	70-130			
Surrogate: 1-Chlorooctadecane	37.6		"	50.0		75.2	70-130			

Matrix Spike (EB50903-MS1)

Source: 5B08012-01

Prepared & Analyzed: 02/09/05

Gasoline Range Organics C6-C12	540	10.0	mg/kg dry	579	ND	93.3	75-125			
Diesel Range Organics >C12-C35	550	10.0	"	579	ND	95.0	75-125			
Total Hydrocarbon C6-C35	1090	10.0	"	1160	ND	94.0	75-125			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	70-130			
Surrogate: 1-Chlorooctadecane	38.4		"	50.0		76.8	70-130			

Matrix Spike (EB50903-MS2)

Source: 5B08012-22

Prepared: 02/09/05 Analyzed: 02/10/05

Gasoline Range Organics C6-C12	557	10.0	mg/kg dry	569	ND	97.9	75-125			
Diesel Range Organics >C12-C35	582	10.0	"	569	ND	102	75-125			
Total Hydrocarbon C6-C35	1140	10.0	"	1140	ND	100	75-125			
Surrogate: 1-Chlorooctane	43.0		mg/kg	50.0		86.0	70-130			
Surrogate: 1-Chlorooctadecane	36.7		"	50.0		73.4	70-130			

Matrix Spike Dup (EB50903-MSD1)

Source: 5B08012-01

Prepared & Analyzed: 02/09/05

Gasoline Range Organics C6-C12	541	10.0	mg/kg dry	579	ND	93.4	75-125	0.185	20	
Diesel Range Organics >C12-C35	584	10.0	"	579	ND	101	75-125	6.00	20	
Total Hydrocarbon C6-C35	1130	10.0	"	1160	ND	97.4	75-125	3.60	20	
Surrogate: 1-Chlorooctane	50.0		mg/kg	50.0		100	70-130			
Surrogate: 1-Chlorooctadecane	42.3		"	50.0		84.6	70-130			

Matrix Spike Dup (EB50903-MSD2)

Source: 5B08012-22

Prepared: 02/09/05 Analyzed: 02/10/05

Gasoline Range Organics C6-C12	532	10.0	mg/kg dry	569	ND	93.5	75-125	4.59	20	
Diesel Range Organics >C12-C35	563	10.0	"	569	ND	98.9	75-125	3.32	20	
Total Hydrocarbon C6-C35	1100	10.0	"	1140	ND	96.5	75-125	3.57	20	
Surrogate: 1-Chlorooctane	43.3		mg/kg	50.0		86.6	70-130			
Surrogate: 1-Chlorooctadecane	38.6		"	50.0		77.2	70-130			

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

Project: EME D-20
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
02/10/05 13:26

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 EB50910 - Water Extraction										
Blank (EB50910-BLK1) Prepared & Analyzed: 02/09/05										
Chloride	ND	0.500	mg/kg							
LCS (EB50910-BS1) Prepared & Analyzed: 02/09/05										
Chloride	9.46		mg/L	10.0		94.6	80-120			
LCS Dup (EB50910-BSD1) Prepared & Analyzed: 02/09/05										
Chloride	9.72		mg/L	10.0		97.2	80-120	2.71	20	
Calibration Check (EB50910-CCV1) Prepared & Analyzed: 02/09/05										
Chloride	9.63		mg/L	10.0		96.3	80-120			
Duplicate (EB50910-DUP1) Source: 5B09001-01 Prepared & Analyzed: 02/09/05										
Chloride	3130	100	mg/kg		3190			1.90	20	
Batch EB51002 - % Solids										
Blank (EB51002-BLK1) Prepared: 02/09/05 Analyzed: 02/10/05										
% Moisture	0.001		%							
Duplicate (EB51002-DUP1) Source: 5B08012-01 Prepared: 02/09/05 Analyzed: 02/10/05										
% Moisture	14.4		%		13.6			5.71	20	

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

Project: EME D-20
Project Number: None Given
Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported:
02/10/05 13:26

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: 2-11-05

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 Sanchez, 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, 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 Project Name: EME D-20
 Company Name: Rice Operating Project #: _____
 Company Address: 122 U. Taylor Project Loc: _____
 City/State/Zip: Hobbs NM 88240 PO #: _____

Telephone No: 505 393-9174 Fax No: 505 397-1471
 Sampler Signature: [Signature]

FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative						Matrix			Analyze For:
				Ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	
D1 Bott Comp 12'	2/7/05	1:00	1	✓							✓		TPH 4181
D2 4 WALL Comp	2/7/05	1:15	1	✓							✓		TPH TX 1005/1006
D3 REMO. BACKFILL	2/7/05	1:25	1	✓							✓		TPH 6015M GR/DRC
													TOTAL
													Metals: As Ag Ba Cd Cr Pb Hg Se
													Volatiles
													Semivolatiles
													BTEX 60218/6030

Special Instructions: _____

Relinquished by: [Signature] Date: 2/8/05 Time: 4:30

Relinquished by: [Signature] Date: 2-8-05 Time: 6:35p

Received by: _____ Date: _____ Time: _____

Received by: ELIOT BLACKBURN W/505.1 Date: 02-09-05 Time: 0700

Signature: [Signature]

Sample Containers: 11
 Temperature Upon Receipt: 1.5°C
 Laboratory Statements: Hot glass covered

5053939174
 LAB # 1005-0114

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

Client: Rice Operating Co

Date/Time: 02-09-05 @ 0700

Order #: _____

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	1.5	C
Shipping container/cooler in good condition?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Custody Seals intact on shipping container/cooler? <i>on Drop Box</i>	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not present	
Custody Seals intact on sample bottles?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	Not present	
Chain of custody present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Sample Instructions complete on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Chain of Custody signed when relinquished and received?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Chain of custody agrees with sample label(s)	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Container labels legible and intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Sample Matrix and properties same as on chain of custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Samples in proper container/bottle?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Samples properly preserved?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Sample bottles intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Preservations documented on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Containers documented on Chain of Custody?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
Sufficient sample amount for indicated test?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
All samples received within sufficient hold time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No		
VOC samples have zero headspace?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Not Applicable	

Other observations:

Variance Documentation:

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

Corrective Action Taken:

HOBBS, NEW MEXICO 88240
 PHONE: (505) 393-9174 FAX: (505) 397-1471
VOC FIELD TEST REPORT FORM

MODEL NO: PGM 761S
 CALIBRATION GAS
 GAS COMPOSITION: ISOBUTYLENE AIR

SERIAL NO: 104412

100 PPM
 BALANCE
 FILL DATE: 5/13/05
 ACCURACY: + or - 2%

LOT NO: 03-2475
 EXP. DATE: 2/13/05
 METER READING
 ACCURACY: 100.1

SYSTEM	JUNCION	UNIT	SECTION	TOWNSHIP	RANGE
EME	0-20	0	20	19	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
5' North	.1		
5' WEST	.1		
5' East	.1		
15' South	.1		
Bott. Comp 12'	.1		
4 WALL COMP	.1		
REMO. BACKFILL	.1		

All
 composite
 samples

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

Signature Joe Smith

Date 2/14/05