1R - 427 - 180

REPORTS

DATE:

5-27-05

EME JCt N-18

IR0427-180

DISCLOSURE

REPORT

RICE OPERATING COMPANY
JUNCTION BOX **DISCLOSURE*** REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
EME	N-18	N	18	20S	37E	Lea	11	7	5

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Jimmy T. Cooper OTHER _____

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

Date Started 8/9/2004 Date Completed 8/27/2004 OCD Witness No

Soil Excavated 389 cubic yards Excavation Length 35 Width 25 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 8/23/2004 Sample Depth 12 ft

Procure 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 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	255
BOTTOM COMP.	0.0	<10.0	<10.0	425
REMED. BACKFILL	0.0	<10.0	<10.0	404

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
vertical at junction	6	359
	7	330
	8	420
	9	230
	10	300
	11	360
	12	509
10 ft south of junction	6	210
	7	269
	8	332
	9	990
	10	1050
	11	1620
	12	1560
10 ft east of junction	6	750
	8	1019
	10	1589
	12	1169
4-wall comp.	n/a	390
bottom comp.	12	509
remed. backfill	n/a	269

General Description of Remedial Action: This junction box site was delineated using a backhoe while PID field screenings and chloride field tests were conducted at regular intervals. All PID readings were relatively low and lab results confirmed TPH concentrations well below NMOCD guidelines. Although chloride concentrations declined laterally throughout the 35 x 25 x 12-ft-deep excavation, chloride concentrations did not decline with depth in some areas. The excavated soil was blended on site and backfilled into the excavation up to 6 ft BGS. At 6 ft, a 1-ft-thick compacted clay barrier was installed to inhibit further downward migration of chloride. The remained soils were backfilled on top of the clay. A new watertight junction box was built over this location. On 10/18/2004, the disturbed surface was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate. A identification plate has been placed on the surface for future environmental considerations and to mark the presence of clay below. NMOCD has been notified of potential groundwater impact.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: chloride graphs, photos, lab results, PID field screenings, clay test, diagram

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 5/27/2005 TITLE Project Scientist

**** This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.***

EME jct. N-18

unit 'N', sec. 18, T20S, R37E

undisturbed junction box 12/31/2003

box removed; old plumbing 7/8/2004

new poly plumbing at junction 7/28/2004

35 x 25 x 12-ft-deep delineation excavation 8/23/2004

testing clay barrier at 6 ft BGS 8/27/2004

backfilled for box-building 8/27/2004

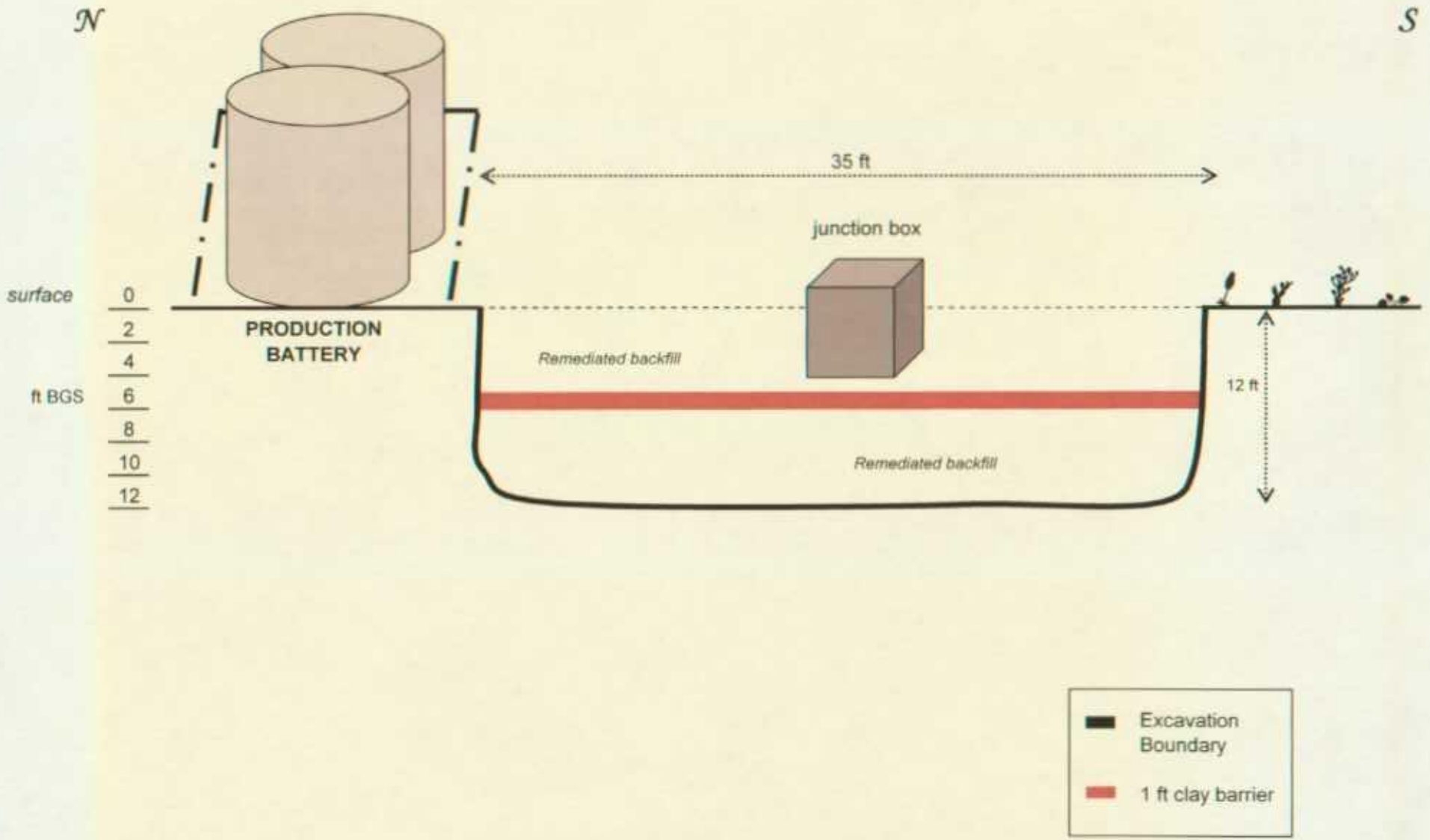
seeding disturbed surface; new box 10/18/2004

complete; identification plate next to junction box 10/18/2004

EME jct. N-18

25 x 35 x 12 ft

Excavation Cross-Section



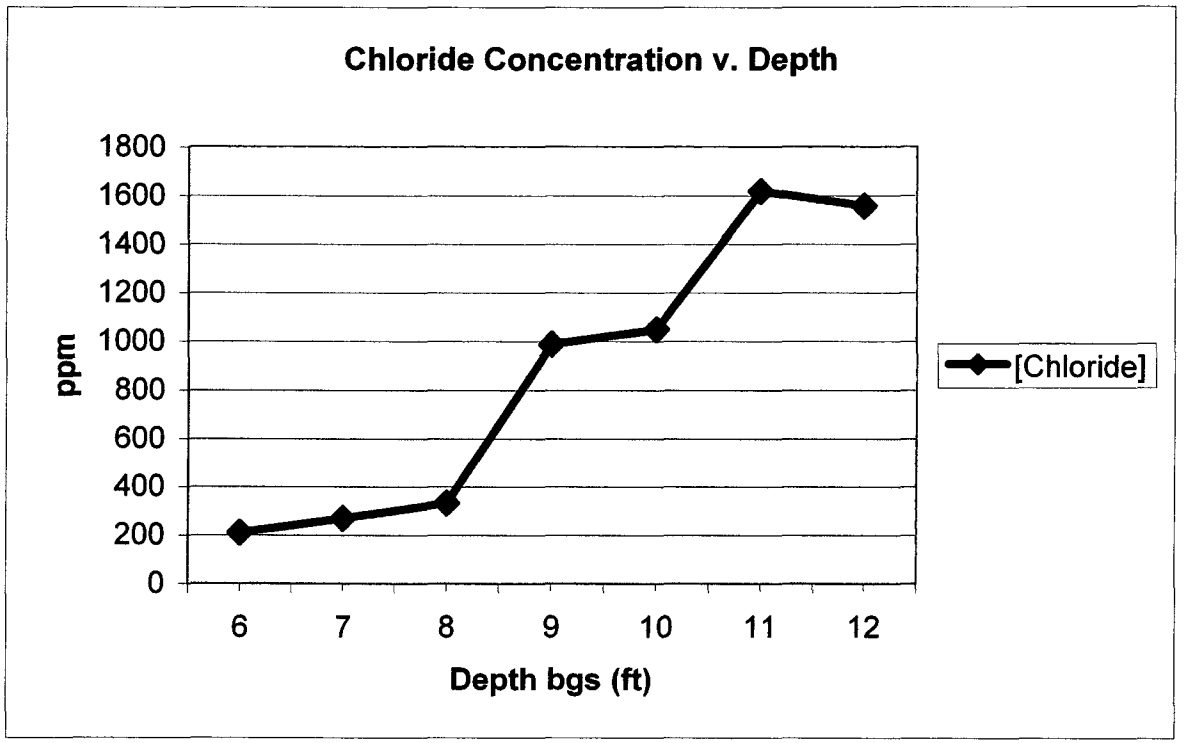
EME jct. N-18

unit 'N', Sec. 18, T20S, R37E

10 ft south of junction

Depth bgs (ft)	[Cl⁻] ppm
6	210
7	269
8	332
9	990
10	1050
11	1620
12	1560

Groundwater = 35 ft



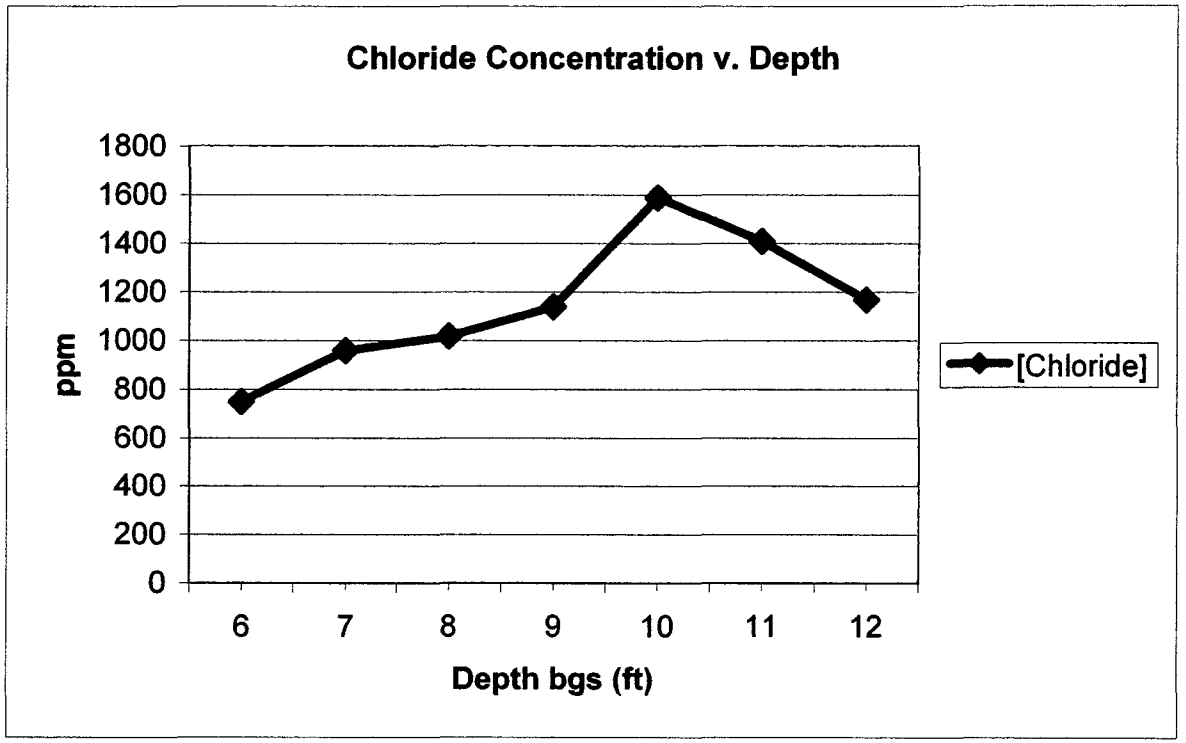
EME jct. N-18

unit 'N', Sec. 18, T20S, R37E

10 ft east of junction

Depth bgs (ft)	[Cl⁻] ppm
6	750
7	960
8	1019
9	1140
10	1589
11	1409
12	1169

Groundwater = 35 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: Jct. N-18
Project Number: None Given
Location: EME

Lab Order Number: 4H26001

Report Date: 09/01/04

Rice Operating Co.	Project: Jct. N-18	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/01/04 08:26

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom Composite	4H26001-01	Soil	08/23/04 11:30	08/26/04 08:00
Wall Composite	4H26001-02	Soil	08/23/04 11:30	08/26/04 08:00
Backfill Composite	4H26001-03	Soil	08/23/04 11:30	08/26/04 08:00

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

Rice Operating Co.	Project: Jct. N-18	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/01/04 08:26

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Composite (4H26001-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH42629	08/26/04	08/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*104 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.4 %*	*70-130*		"	"	"	"	
Wall Composite (4H26001-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH42629	08/26/04	08/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*110 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.0 %*	*70-130*		"	"	"	"	
Backfill Composite (4H26001-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EH42629	08/26/04	08/26/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*113 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.6 %*	*70-130*		"	"	"	"	

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Rice Operating Co.	Project: Jct. N-18	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/01/04 08:26

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 (4H26001-01) Soil									
Chloride	**425**	20.0	mg/kg Wet	2	EH43110	08/26/04	08/31/04	SW 846 9253	
% Solids	**93.0**		%	1	EH42703	08/26/04	08/26/04	% calculation	
Wall Composite (4H26001-02) Soil									
Chloride	**255**	20.0	mg/kg Wet	2	EH43110	08/26/04	08/31/04	SW 846 9253	
% Solids	**95.0**		%	1	EH42703	08/26/04	08/26/04	% calculation	
Backfill Composite (4H26001-03) Soil									
Chloride	**404**	20.0	mg/kg Wet	2	EH43110	08/26/04	08/31/04	SW 846 9253	
% Solids	**96.0**		%	1	EH42703	08/26/04	08/26/04	% calculation	

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Rice Operating Co.	Project: Jct. N-18	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/01/04 08:26

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
Batch EH42629 - Solvent Extraction (GC)										
Blank (EH42629-BLK1)				Prepared & Analyzed: 08/26/04						
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	*38.2*		*mg/kg*	*50.0*		*76.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.4*		*"*	*50.0*		*70.8*	*70-130*			
Blank (EH42629-BLK2)				Prepared: 08/26/04 Analyzed: 08/27/04						
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	*36.5*		*mg/kg*	*50.0*		*73.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.2*		*"*	*50.0*		*70.4*	*70-130*			
LCS (EH42629-BS1)				Prepared & Analyzed: 08/26/04						
Gasoline Range Organics C6-C12	455	10.0	mg/kg wet	500		91.0	75-125			
Diesel Range Organics >C12-C35	511	10.0	"	500		102	75-125			
Total Hydrocarbon C6-C35	966	10.0	"	1000		96.6	75-125			
Surrogate: 1-Chlorooctane	*55.8*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.7*		*"*	*50.0*		*91.4*	*70-130*			
LCS (EH42629-BS2)				Prepared: 08/26/04 Analyzed: 08/27/04						
Gasoline Range Organics C6-C12	481	10.0	mg/kg wet	500		96.2	75-125			
Diesel Range Organics >C12-C35	523	10.0	"	500		105	75-125			
Total Hydrocarbon C6-C35	1000	10.0	"	1000		100	75-125			
Surrogate: 1-Chlorooctane	*55.4*		*mg/kg*	*50.0*		*111*	*70-130*			
Surrogate: 1-Chlorooctadecane	*39.3*		*"*	*50.0*		*78.6*	*70-130*			
Calibration Check (EH42629-CCV1)				Prepared & Analyzed: 08/26/04						
Gasoline Range Organics C6-C12	535		mg/kg	500		107	80-120			
Diesel Range Organics >C12-C35	529		"	500		106	80-120			
Total Hydrocarbon C6-C35	1060		"	1000		106	80-120			
Surrogate: 1-Chlorooctane	*57.6*		*"*	*50.0*		*115*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.6*		*"*	*50.0*		*93.2*	*70-130*			

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Rice Operating Co.	Project: Jct. N-18	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/01/04 08:26

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
Batch EH42629 - Solvent Extraction (GC)										
Calibration Check (EH42629-CCV2)				Prepared: 08/26/04 Analyzed: 08/27/04						
Gasoline Range Organics C6-C12	501		mg/kg	500		100	80-120			
Diesel Range Organics >C12-C35	513		"	500		103	80-120			
Total Hydrocarbon C6-C35	1010		"	1000		101	80-120			
Surrogate: 1-Chlorooctane	*60.8*		*"*	*50.0*		*122*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.3*		*"*	*50.0*		*90.6*	*70-130*			
Matrix Spike (EH42629-MS1)		**Source: 4H26001-01**		Prepared & Analyzed: 08/26/04						
Gasoline Range Organics C6-C12	621	10.0	mg/kg dry	538	ND	115	75-125			
Diesel Range Organics >C12-C35	612	10.0	"	538	ND	114	75-125			
Total Hydrocarbon C6-C35	1230	10.0	"	1080	ND	114	75-125			
Surrogate: 1-Chlorooctane	*64.7*		*mg/kg*	*50.0*		*129*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.3*		*"*	*50.0*		*94.6*	*70-130*			
Matrix Spike (EH42629-MS2)		**Source: 4H26004-04**		Prepared: 08/26/04 Analyzed: 08/27/04						
Gasoline Range Organics C6-C12	600	10.0	mg/kg dry	543	10.6	109	75-125			
Diesel Range Organics >C12-C35	800	10.0	"	543	222	106	75-125			
Total Hydrocarbon C6-C35	1400	10.0	"	1090	233	107	75-125			
Surrogate: 1-Chlorooctane	*56.5*		*mg/kg*	*50.0*		*113*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.6*		*"*	*50.0*		*85.2*	*70-130*			
Matrix Spike Dup (EH42629-MSD1)		**Source: 4H26001-01**		Prepared & Analyzed: 08/26/04						
Gasoline Range Organics C6-C12	575	10.0	mg/kg dry	538	ND	107	75-125	7.69	20	
Diesel Range Organics >C12-C35	601	10.0	"	538	ND	112	75-125	1.81	20	
Total Hydrocarbon C6-C35	1180	10.0	"	1080	ND	109	75-125	4.15	20	
Surrogate: 1-Chlorooctane	*58.1*		*mg/kg*	*50.0*		*116*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.0*		*"*	*50.0*		*90.0*	*70-130*			
Matrix Spike Dup (EH42629-MSD2)		**Source: 4H26004-04**		Prepared: 08/26/04 Analyzed: 08/27/04						
Gasoline Range Organics C6-C12	612	10.0	mg/kg dry	543	10.6	111	75-125	1.98	20	
Diesel Range Organics >C12-C35	776	10.0	"	543	222	102	75-125	3.05	20	
Total Hydrocarbon C6-C35	1390	10.0	"	1090	233	106	75-125	0.717	20	
Surrogate: 1-Chlorooctane	*59.9*		*mg/kg*	*50.0*		*120*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.0*		*"*	*50.0*		*82.0*	*70-130*			

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Rice Operating Co.	Project: Jct. N-18	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/01/04 08:26

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 EH42703 - General Preparation (Prep)										
Blank (EH42703-BLK1)				Prepared & Analyzed: 08/26/04						
% Solids	100		%							
Duplicate (EH42703-DUP1)		**Source: 4H26001-01**		Prepared & Analyzed: 08/26/04						
% Solids	94.0		%		93.0			1.07	20	
Batch EH43110 - Water Extraction										
Blank (EH43110-BLK1)				Prepared: 08/26/04 Analyzed: 08/31/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EH43110-MS1)		**Source: 4H26001-01**		Prepared: 08/26/04 Analyzed: 08/31/04						
Chloride	915	20.0	mg/kg Wet	500	425	98.0	80-120			
Matrix Spike Dup (EH43110-MSD1)		**Source: 4H26001-01**		Prepared: 08/26/04 Analyzed: 08/31/04						
Chloride	925	20.0	mg/kg Wet	500	425	100	80-120	1.09	20	
Reference (EH43110-SRM1)				Prepared & Analyzed: 08/31/04						
Chloride	5050		mg/kg	5000		101	80-120			

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

Rice Operating Co.	Project: Jct. N-18	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/01/04 08:26

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: 9-02-04

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.

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: Jet N-18
Project #:
Project Loc: EME
PO #:

4H2600l

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 / 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	8-23-04	11:30	1	✓									✓		✓			✓						
-02	Wall Composite	8-23-04	11:30	1	✓									✓		✓			✓						
-03	Backfill Composite	8-23-04	11:30	1	✓									✓		✓			✓						

Special Instructions:
enviro@leaco.net

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
4.0 °C

Relinquished by:	Date	Time	Received by:	Date	Time
Rob Elam	8-23-04			8/25	17:00
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
	8/26	8 AM		8-26-04	0800

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

Client: Rice Operating Co.

Date/Time: 08-26-04 @ 0845

Order #: 4H26001

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	4.0 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:

_____

_____

_____

_____

_____

_____

_____

_____

RICE 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
SERIAL NO: ~~104412~~ 104550
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE 100 PPM
AIR BALANCE
LOT NO: 03-2475
FILL DATE: 4-19-04
EXP. DATE: 10-19-04
ACCURACY: ± 2%
METER READING
ACCURACY: 100.0

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	N-18	N	18	20-S	37-E

SAMPLE	PID RESULT	SAMPLE	PID RESULT
20' North Wall	0		
15' South Wall	0		
15' East Wall	0		
10' West Wall	0		
12' Bottom Comp.	0		
Wall Composit	0		
Backfill Comp.	0		

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

Rob Elam
Signature

Title

8-23-04
Date

LABORATORY TEST REPORT

PETTIGREW & ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827

AASHTO R18

DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS. III, P.E./P.S.

To: Rice Operating
Attn: Carolyn Haynes
122 W. Taylor
Hobbs, NM 88240

Material: Red Clay

Test Method: ASTM: D 2922

Project: JCT N-18 EME

Date of Test: August 27, 2004

Depth: Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	Pit - 10' E. & 5' N. of the SW Corner	101.5	15.2	

Control Density: 106.2
ASTM: D 698

Optimum Moisture: 17.3

Required Compaction: 95%

Lab No.: 04 10051-10052

Copies To: Rice

PETTIGREW & ASSOCIATES

BY: S/E.T.