1R - 427 - 159

REPORTS

DATE:

12-17-04

EME H-27-1

IR0427-159

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	H-27-1	H	27	19S	36E	Lea	eliminated--no box		

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

Depth to Groundwater 59 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 9/3/2004 Date Completed 11/12/2004 NMOCD Witness no

Soil Excavated 96 cubic yards Excavation Length 20 Width 10 Depth 13 feet

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

FINAL ANALYTICAL RESULTS:

Sample Date 9/9/2004, 11/12/2004 **Sample Depth** 12, 45 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	542
BOTTOM COMP.	0.0	<10.0	<10.0	1000
REMED. BACKFILL	0.0	<10.0	52.9	287
SOIL BORE @ 45 ft	1.7	<10.0	<10.0	<20

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
5 ft *WEST* of junction	3	509
	4	810
	5	449
	6	510
	7	449
	13	779
15 ft *WEST* of junction	3	629
	4	599
	5	570
	6	509
	7	539
	8	480
	9	539
	10	390
	11	239
	12	210
Soil Bore 5 ft *EAST* of junction	20	827
	25	1183
	30	393
	41	90
	42	47
	43	52
	45	56

General Description of Remedial Action: This junction box site was located just east of a lease road. The junction was eliminated with the pipeline replacement project. The box lumber was removed and the site was delineated using a backhoe while PID readings and chloride field tests were conducted at regular intervals. Samples were taken from the 10 x 10 x 12-ft-deep excavation for lab confirmation (results listed above). The bottom composite result was incongruent with chloride field tests so the excavation was extended to more accurately characterize chloride impact. 5 ft west of the junction exhibited elevated chloride levels so the excavation was extended to 15 ft west where a conclusive decline with depth and breadth was established (see graph). The final 10 x 20 x 13-ft-deep excavation yield elevated chloride on the east side of the excavation at 13 ft BGS. A soil bore was initiated on 11/12/04 to further characterize chloride concerns east of the box site. A conclusive trend of decline was observed, indicative of non-saturated vadose conditions. The bore was aborted at 45 ft BGS where lab results yielded non-detect chloride levels (<20 ppm) in the sample. The 10 x 20 x 13 ft excavation was backfilled to 6 ft BGS with the excavated soil that was remediated on site. At 6 ft, a 1-ft-thick compacted clay barrier was installed to inhibit further downward migration of chloride. The remaining spoils were backfilled on top of the clay and leveled to the surface. On 10/7/04 the disturbed surface was seeded with a blend of native vegetation. An identification plate has been placed on the surface to mark the clay below. A junction box is no longer required at this site.

enclosures: chloride graphs, photos, lab results, PID field screenings, clay test, bore log, cross-section

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 12/17/2004 TITLE Project Scientist

EME jct. H-27

unit 'H', sec. 27, T19S, R36E

undisturbed junction box before excavation 8/20/2004

excavation & delineation 10 x 10 x 7-ft 9/7/2004

testing clay barrier at 6 ft BGS 10/6/2004

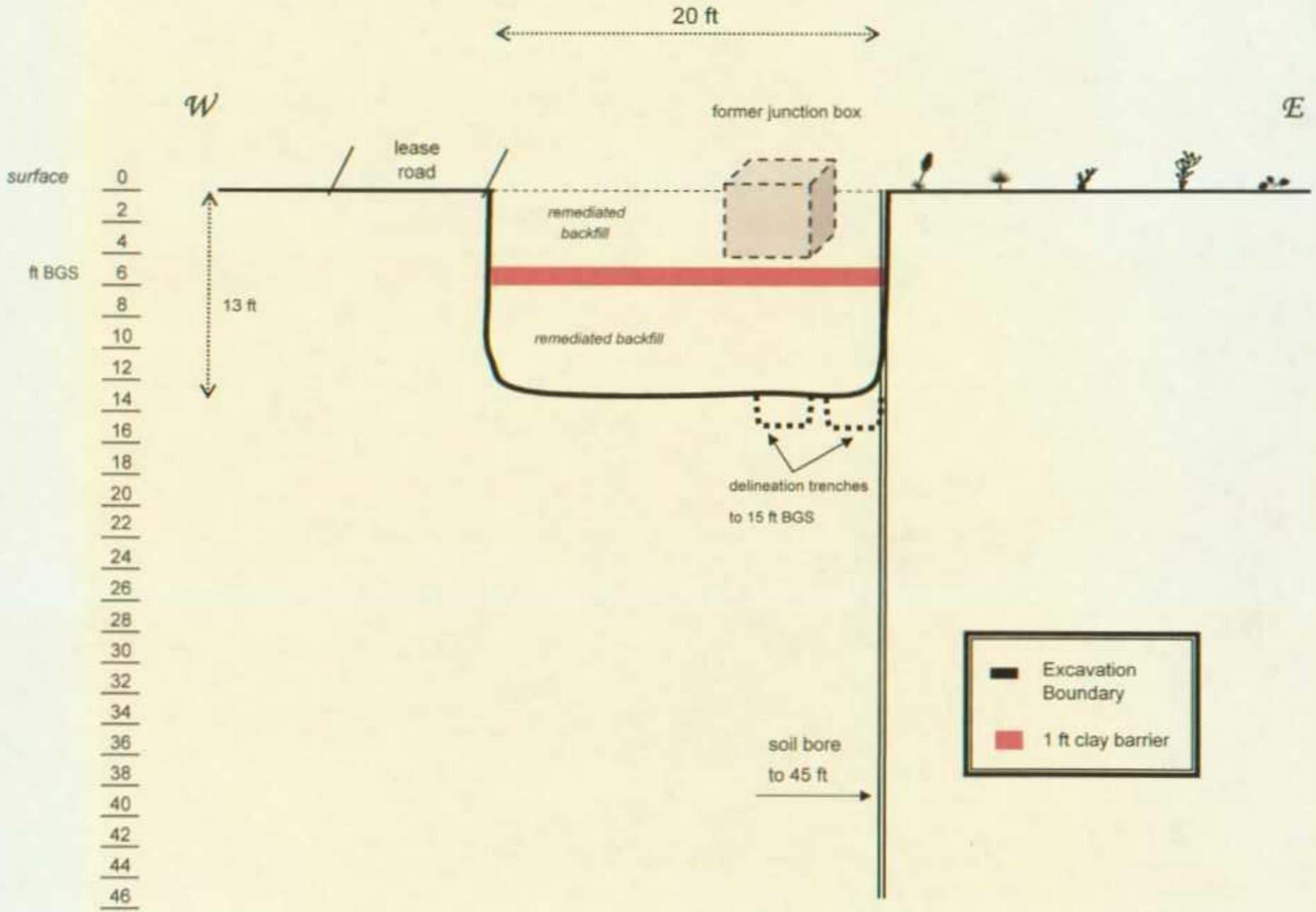
seeding disturbed area at backfilled site; clay ID plate at feet 10/7/2004

delineation drilling 11/12/2004

EME jct. H-27-1

20 x 10 x 13 ft

Excavation Cross-Section



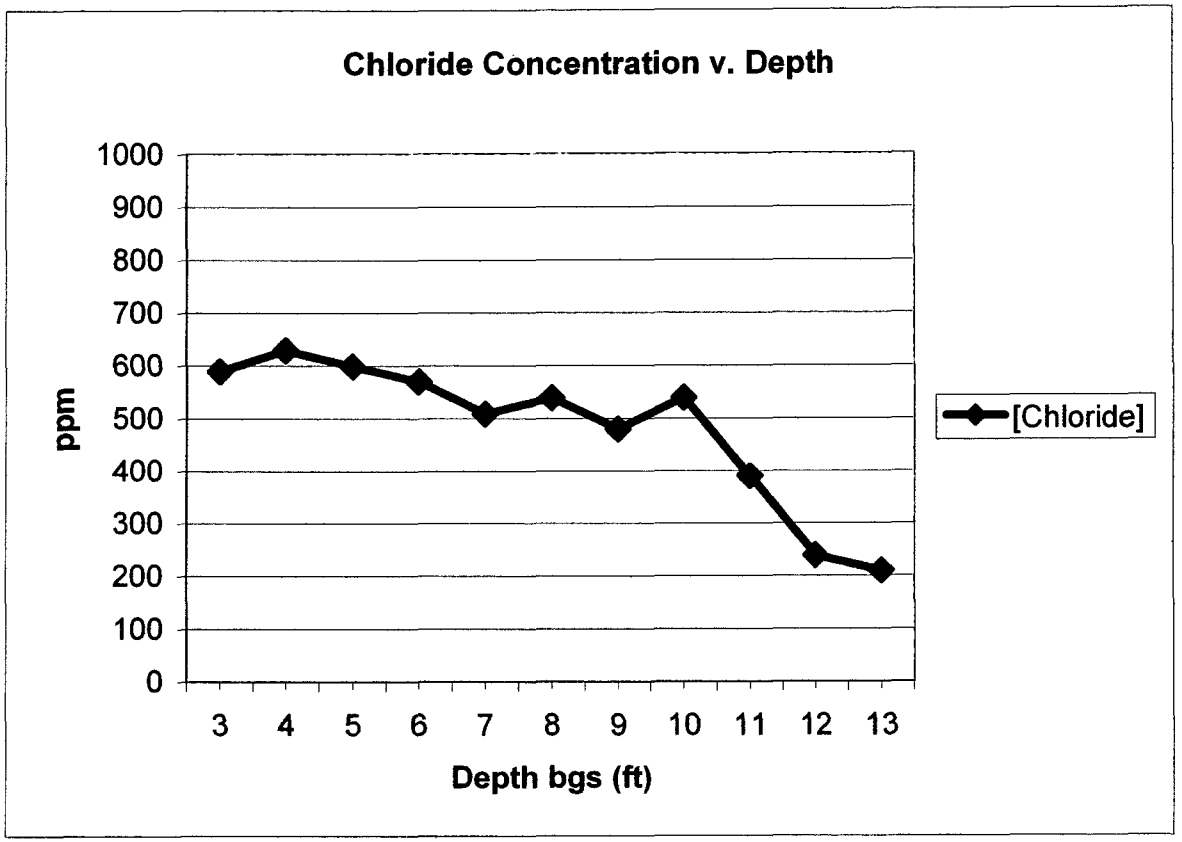
EME jct. H-27-1

unit 'H', Sec. 27, T19S, R36E

15 ft WEST of junction

Depth bgs (ft)	[Cl⁻] ppm
3	589
4	629
5	599
6	570
7	509
8	539
9	480
10	539
11	390
12	239
13	210

Groundwater = 59 ft



EME jct. H-27-1

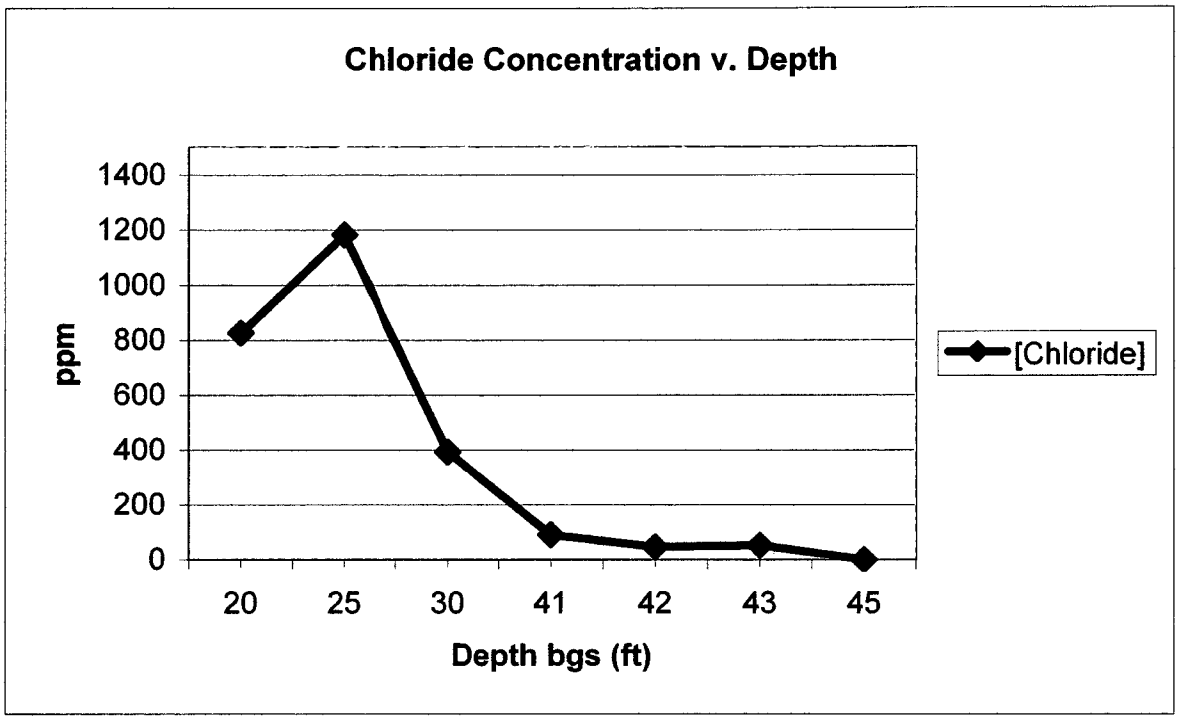
unit 'H', Sec. 27, T19S, R36E

SOIL BORE 5 ft EAST of junction

Depth bgs (ft)	[Cl⁻] ppm
20	827
25	1183
30	393
41	90
42	47
43	52
45	20 *

* Lab results yielded chloride concentration <20 ppm.

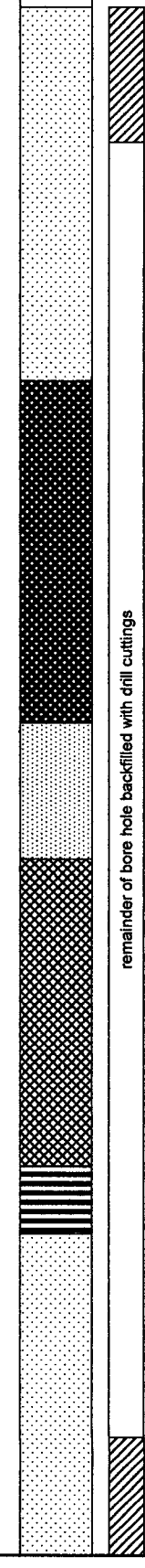
Groundwater = 59 ft



LOG OF BORING
K. Farris
RICE Operating Company

Logger:	Israel Juarez; Mort Bates	**Client:**	**Well ID:**
Driller:	Atkins Engineering Associates, Inc.	RICE Operating Company	
Drilling Method:	3.25-in. Hollow Stem Auger	**Project Name:**	
Start Date:	11/12/2004	EME jct. H-27-1	**SB-1**
End Date:	11/12/2004	**Location:**	
Notes:	5 ft EAST of junction box TD = 45 ft Groundwater = 59 ft	EME SWD System unit 'H', sec. 27, T19S, R36E Lea County, NM	

Depth (feet)	Split Spoon chloride	Split Spoon PID	Description	Additional Notes
0.0			0 -10 ft SILTY SAND loose, light tan, damp	0-3 ft hydrated bentonite seal
1.0				
2.0				
3.0				
4.0				
5.0				
6.0				
7.0				
8.0				
9.0				
10.0	172	0.2		
11.0			10 - 20 ft SILTY GRAVEL w/some SAND loose, tan, dry	
12.0				
13.0				
14.0				
15.0	299	0.4		
16.0				
17.0				
18.0				
19.0				
20.0	827	2.0		
21.0			20 - 24 ft CLAYEY SAND loose, brown, dry	
22.0				
23.0				
24.0				
25.0	1183	1.8	24 - 33 ft SILTY SAND w/ BROKEN SANDSTONE firm, tan, dry	
26.0				
27.0				
28.0				
29.0				
30.0	393	0.6		
31.0				
32.0				
33.0				
34.0			33 - 35 ft SANDSTONE hard, tan, dry	
35.0				
36.0			35 - ft SILTY SAND loose, tan, damp	
37.0				
38.0				
39.0				
40.0				
41.0	90	1.6		
42.0	47	0.7		42-45 ft hydrated bentonite seal
43.0	52	1.4		
44.0				
45.0	56	1.7		lab = <20 ppm Cl⁻



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. H-27-1 S.B.
Project Number: None Given
Location: EME

Lab Order Number: 4K15006

Report Date: 11/22/04

Rice Operating Co.	Project: EME Jct. H-27-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	11/22/04 11:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB @ 45' on East Wall	4K15006-01	Soil	11/12/04 14:45	11/15/04 07:25

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

Rice Operating Co.	Project: EME Jct. H-27-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	11/22/04 11:08

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB @ 45' on East Wall (4K15006-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EK41509	11/15/04	11/16/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*77.3 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*87.4 %*	*70-130*		"	"	"	"	

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

Rice Operating Co.	Project: EME Jct. H-27-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	11/22/04 11:08

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB @ 45' on East Wall (4K15006-01) Soil									
Chloride	ND	20.0	mg/kg Wet	2	EK41905	11/15/04	11/19/04	SW 846 9253	
% Moisture	**3.0**		%	1	EK41601	11/15/04	11/16/04	% calculation	

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

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 EK41509 - Solvent Extraction (GC)										
Blank (EK41509-BLK1)				Prepared: 11/15/04 Analyzed: 11/16/04						
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	*37.0*		"	*50.0*		*74.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.6*		"	*50.0*		*81.2*	*70-130*			
LCS (EK41509-BS1)				Prepared: 11/15/04 Analyzed: 11/16/04						
Gasoline Range Organics C6-C12	536	10.0	mg/kg wet	500		107	75-125			
Diesel Range Organics >C12-C35	624	10.0	"	500		125	75-125			
Total Hydrocarbon C6-C35	1160	10.0	"	1000		116	75-125			
Surrogate: 1-Chlorooctane	*54.8*		"	*50.0*		*110*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.1*		"	*50.0*		*104*	*70-130*			
Calibration Check (EK41509-CCV1)				Prepared: 11/15/04 Analyzed: 11/17/04						
Gasoline Range Organics C6-C12	465		mg/kg	500		93.0	80-120			
Diesel Range Organics >C12-C35	600		"	500		120	80-120			
Total Hydrocarbon C6-C35	1060		"	1000		106	80-120			
Surrogate: 1-Chlorooctane	*53.8*		*mg/kg wet*	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.9*		"	*50.0*		*108*	*70-130*			
Matrix Spike (EK41509-MS1)	**Source: 4K15003-02**			Prepared: 11/15/04 Analyzed: 11/16/04						
Gasoline Range Organics C6-C12	477	10.0	mg/kg dry	538	ND	88.7	75-125			
Diesel Range Organics >C12-C35	628	10.0	"	538	ND	117	75-125			
Total Hydrocarbon C6-C35	1100	10.0	"	1080	ND	102	75-125			
Surrogate: 1-Chlorooctane	*53.8*		"	*53.8*		*100*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.1*		"	*53.8*		*93.1*	*70-130*			
Matrix Spike Dup (EK41509-MSD1)	**Source: 4K15003-02**			Prepared: 11/15/04 Analyzed: 11/16/04						
Gasoline Range Organics C6-C12	446	10.0	mg/kg dry	538	ND	82.9	75-125	6.72	20	
Diesel Range Organics >C12-C35	596	10.0	"	538	ND	111	75-125	5.23	20	
Total Hydrocarbon C6-C35	1040	10.0	"	1080	ND	96.3	75-125	5.61	20	
Surrogate: 1-Chlorooctane	*51.5*		"	*53.8*		*95.7*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.3*		"	*53.8*		*89.8*	*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 Limits	RPD	RPD Limit	Notes
Batch EK41601 - General Preparation (Prep)										
Blank (EK41601-BLK1)				Prepared: 11/15/04 Analyzed: 11/16/04						
% Moisture	0.0		%							
Duplicate (EK41601-DUP1)		**Source: 4K12010-01**		Prepared: 11/15/04 Analyzed: 11/16/04						
% Moisture	8.0		%		8.0			0.00	20	
Batch EK41905 - Water Extraction										
Blank (EK41905-BLK1)				Prepared: 11/15/04 Analyzed: 11/19/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EK41905-MS1)		**Source: 4K12018-01**		Prepared: 11/15/04 Analyzed: 11/19/04						
Chloride	574	20.0	mg/kg Wet	500	106	93.6	80-120			
Matrix Spike Dup (EK41905-MSD1)		**Source: 4K12018-01**		Prepared: 11/15/04 Analyzed: 11/19/04						
Chloride	584	20.0	mg/kg Wet	500	106	95.6	80-120	1.73	20	
Reference (EK41905-SRM1)				Prepared & Analyzed: 11/19/04						
Chloride	5000		mg/kg	5000		100	80-120			

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: 11-22-04

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 Sanchez, 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: Israel Juarez

Project Name: EME JCT H-27-1
Project #:
Project Loc: EME
PO #:

LAB # (lab use only): 4K15006

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers 4 oz glass	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TDS (CL) SAR/EC	Analyze For: TOTAL: TPH 418.1	Analyze For: TOTAL: TPH TX 1005/1006	Analyze For: TOTAL: TPH 8015M GRO/DRO	Analyze For: TOTAL: Metals: As Ag Ba Cd Cr Pb Hg Se	Analyze For: TOTAL: Volatiles	Analyze For: TOTAL: Semivolatiles	Analyze For: TOTAL: BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-01	SB @ 45' on East Wall	11/12/04	2:45	1	X									X		X			X						

Special Instructions:

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

Relinquished by:	Date	Time	Received by:	Date	Time
	11-15-04	5:25			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
Drop Box	11-15-04	0725	Jaime McMurray	11-15-04	0725

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

Client: Rice Operating

Date/Time: 11-15-04 @ 0930

Order #: 4K15006

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:

_____

_____

_____

_____

_____

_____

_____

_____

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: 1-7-06
METER READING
ACCURACY: 98.9

SERIAL NO: 104412

100 PPM
BALANCE
FILL DATE: 7-7-04
ACCURACY: ± 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
EME	H-27-1	H	27	19	36

EAST WALL BORE 5' EAST

SAMPLE	PID RESULT	SAMPLE	PID RESULT
@ 10'	0.2		
15'	0.4		
20'	2.0		
25'	1.8		
30'	0.6		
41'	1.6		
42'	0.7		
43'	1.4		
45'	1.7		

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

Israel Guarez
Signature

11/12/04
Date

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. H-27-1
Project Number: None Given
Location: EME

Lab Order Number: 4I10008

Report Date: 09/15/04

Rice Operating Co.	Project: Jct. H-27-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/15/04 07:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
12' Bottom Comp.	4I10008-01	Soil	09/09/04 15:00	09/09/04 19:20
Wall Comp.	4I10008-02	Soil	09/09/04 15:00	09/09/04 19:20
Backfill Comp.	4I10008-03	Soil	09/09/04 15:00	09/09/04 19:20

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

Rice Operating Co.	Project: Jct. H-27-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/15/04 07:59

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Comp. (4I10008-01) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41006	09/10/04	09/13/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*72.6 %*	*70-130*		"	"	"	"	
Wall Comp. (4I10008-02) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41006	09/10/04	09/13/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*96.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*72.4 %*	*70-130*		"	"	"	"	
Backfill Comp. (4I10008-03) Soil									
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI41006	09/10/04	09/13/04	EPA 8015M	
Diesel Range Organics >C12-C35	**52.9**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**52.9**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*101 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*78.8 %*	*70-130*		"	"	"	"	

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

Rice Operating Co.	Project: Jct. H-27-1	Fax: (505) 397-1471
122 W. Taylor	Project Number: None Given	**Reported:**
Hobbs NM, 88240	Project Manager: Roy Rascon	09/15/04 07:59

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

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
12' Bottom Comp. (4I10008-01) Soil									
Chloride	**1000**	20.0	mg/kg Wet	2	EI41311	09/10/04	09/12/04	SW 846 9253	
% Solids	**99.0**		%	1	EI41401	09/10/04	09/10/04	% calculation	
Wall Comp. (4I10008-02) Soil									
Chloride	**542**	20.0	mg/kg Wet	2	EI41311	09/10/04	09/12/04	SW 846 9253	
% Solids	**99.0**		%	1	EI41401	09/10/04	09/10/04	% calculation	
Backfill Comp. (4I10008-03) Soil									
Chloride	**287**	20.0	mg/kg Wet	2	EI41311	09/10/04	09/12/04	SW 846 9253	
% Solids	**99.0**		%	1	EI41401	09/10/04	09/10/04	% calculation	

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

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 EI41006 - Solvent Extraction (GC)										
Blank (EI41006-BLK1)				Prepared: 09/10/04 Analyzed: 09/13/04						
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	*53.4*		*mg/kg*	*50.0*		*107*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.2*		*"*	*50.0*		*104*	*70-130*			
Blank (EI41006-BLK2)				Prepared: 09/10/04 Analyzed: 09/14/04						
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	*52.0*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.9*		*"*	*50.0*		*85.8*	*70-130*			
LCS (EI41006-BS1)				Prepared: 09/10/04 Analyzed: 09/13/04						
Gasoline Range Organics C6-C12	422	10.0	mg/kg wet	500		84.4	75-125			
Diesel Range Organics >C12-C35	518	10.0	"	500		104	75-125			
Total Hydrocarbon C6-C35	940	10.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	*50.8*		*mg/kg*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*53.8*		*"*	*50.0*		*108*	*70-130*			
LCS (EI41006-BS2)				Prepared: 09/10/04 Analyzed: 09/14/04						
Gasoline Range Organics C6-C12	445	10.0	mg/kg wet	500		89.0	75-125			
Diesel Range Organics >C12-C35	495	10.0	"	500		99.0	75-125			
Total Hydrocarbon C6-C35	940	10.0	"	1000		94.0	75-125			
Surrogate: 1-Chlorooctane	*60.5*		*mg/kg*	*50.0*		*121*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
Calibration Check (EI41006-CCV1)				Prepared: 09/10/04 Analyzed: 09/13/04						
Gasoline Range Organics C6-C12	467		mg/kg	500		93.4	80-120			
Diesel Range Organics >C12-C35	564		"	500		113	80-120			
Total Hydrocarbon C6-C35	1030		"	1000		103	80-120			
Surrogate: 1-Chlorooctane	*50.7*		*"*	*50.0*		*101*	*70-130*			
Surrogate: 1-Chlorooctadecane	*52.9*		*"*	*50.0*		*106*	*70-130*			

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 EI41006 - Solvent Extraction (GC)										
Calibration Check (EI41006-CCV2)				Prepared: 09/10/04 Analyzed: 09/14/04						
Gasoline Range Organics C6-C12	477		mg/kg	500		95.4	80-120			
Diesel Range Organics >C12-C35	554		"	500		111	80-120			
Total Hydrocarbon C6-C35	1030		"	1000		103	80-120			
Surrogate: 1-Chlorooctane	*52.2*		*"*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.3*		*"*	*50.0*		*103*	*70-130*			
Matrix Spike (EI41006-MS1)	**Source: 4I10008-02**			Prepared: 09/10/04 Analyzed: 09/14/04						
Gasoline Range Organics C6-C12	417	10.0	mg/kg dry	505	ND	82.6	75-125			
Diesel Range Organics >C12-C35	519	10.0	"	505	ND	103	75-125			
Total Hydrocarbon C6-C35	936	10.0	"	1010	ND	92.7	75-125			
Surrogate: 1-Chlorooctane	*46.4*		*mg/kg*	*50.0*		*92.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.1*		*"*	*50.0*		*94.2*	*70-130*			
Matrix Spike (EI41006-MS2)	**Source: 4I10018-07**			Prepared: 09/10/04 Analyzed: 09/14/04						
Gasoline Range Organics C6-C12	417	10.0	mg/kg dry	500	ND	83.4	75-125			
Diesel Range Organics >C12-C35	499	10.0	"	500	ND	99.8	75-125			
Total Hydrocarbon C6-C35	916	10.0	"	1000	ND	91.6	75-125			
Surrogate: 1-Chlorooctane	*49.3*		*mg/kg*	*50.0*		*98.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*42.6*		*"*	*50.0*		*85.2*	*70-130*			
Matrix Spike Dup (EI41006-MSD1)	**Source: 4I10008-02**			Prepared: 09/10/04 Analyzed: 09/14/04						
Gasoline Range Organics C6-C12	444	10.0	mg/kg dry	505	ND	87.9	75-125	6.27	20	
Diesel Range Organics >C12-C35	523	10.0	"	505	ND	104	75-125	0.768	20	
Total Hydrocarbon C6-C35	967	10.0	"	1010	ND	95.7	75-125	3.26	20	
Surrogate: 1-Chlorooctane	*45.9*		*mg/kg*	*50.0*		*91.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.7*		*"*	*50.0*		*95.4*	*70-130*			
Matrix Spike Dup (EI41006-MSD2)	**Source: 4I10018-07**			Prepared: 09/10/04 Analyzed: 09/14/04						
Gasoline Range Organics C6-C12	433	10.0	mg/kg dry	500	ND	86.6	75-125	3.76	20	
Diesel Range Organics >C12-C35	533	10.0	"	500	ND	107	75-125	6.59	20	
Total Hydrocarbon C6-C35	966	10.0	"	1000	ND	96.6	75-125	5.31	20	
Surrogate: 1-Chlorooctane	*51.8*		*mg/kg*	*50.0*		*104*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.7*		*"*	*50.0*		*93.4*	*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 Limits	RPD	RPD Limit	Notes
Batch EI41311 - Water Extraction										
Blank (EI41311-BLK1)				Prepared: 09/09/04 Analyzed: 09/12/04						
Chloride	ND	20.0	mg/kg Wet							
Matrix Spike (EI41311-MS1)		**Source: 4I09005-01**		Prepared: 09/09/04 Analyzed: 09/12/04						
Chloride	3030	20.0	mg/kg Wet	500	2550	96.0	80-120			
Matrix Spike Dup (EI41311-MSD1)		**Source: 4I09005-01**		Prepared: 09/09/04 Analyzed: 09/12/04						
Chloride	3080	20.0	mg/kg Wet	500	2550	106	80-120	1.64	20	
Reference (EI41311-SRM1)				Prepared & Analyzed: 09/12/04						
Chloride	5000		mg/kg	5000		100	80-120			
Batch EI41401 - General Preparation (Prep)										
Blank (EI41401-BLK1)				Prepared & Analyzed: 09/10/04						
% Solids	100		%							
Duplicate (EI41401-DUP1)		**Source: 4I10004-01**		Prepared & Analyzed: 09/10/04						
% Solids	95.0		%		98.0			3.11	20	

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: 9-15-04

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 Ellen

Project Name: Jct. H-27-1
Project #:
Project Loc: EME
PO #:

HI10008

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	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)	Standard TAT
-01	12' Bottom Comp	9-9-04	3:00	1		✓									✓		✓			✓						
-02	Wall Comp	9-9-04	3:00	1		✓									✓		✓			✓						
-03	Backfill Comp	9-9-04	3:00	1		✓									✓		✓			✓						

Special Instructions:

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

Relinquished by:	Date	Time	Received by:	Date	Time
Rob Ellen	9-9-04	4:45			
			Cliff Hayes	9/9	1645
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
Cliff Hayes	9/9	1720	Ed. Kelly	9-09-04	1920

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

Client: Rice Operating Co.

Date/Time: 09-10-04 @ 0900

Order #: 4I10008

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	H-27-1	H	27	19	36

10X10X12'

New Readings after squaring 12' Per meeting

SAMPLE	PID RESULT	SAMPLE	PID RESULT
North Wall	0		
South "	0		
East "	0		
West "	0		
12' Bottom	0		
Wall	0		
Backfill	0		
10'L X 10'W X 12'D			

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

Rob Elam — Signature

Title

9-9-04 — 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

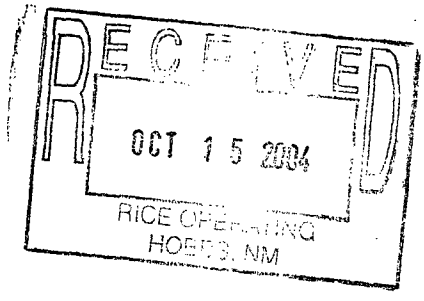
Test Method: ASTM: D 2922

Project: JCT H-27-1 ~~ME~~ EME

Date of Test: October 6, 2004

Depth: Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	Pit - 10' W. & 2' N. of SE Corner	98.0	25.8	



Control Density: 109.5
ASTM: D 698

Optimum Moisture: 16.6

Required Compaction: 95%

Lab No.: 04 11054-11055

Copies To: Rice

PETTIGREW & ASSOCIATES

BY: ~~S.E.I.~~