# 1R - 426-89

## REPORTS

DATE:

8/02/2004

130 JCH M-16-2

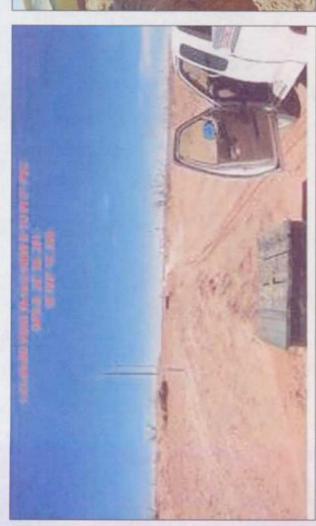
RIZE BD 180426-89

## FINAL

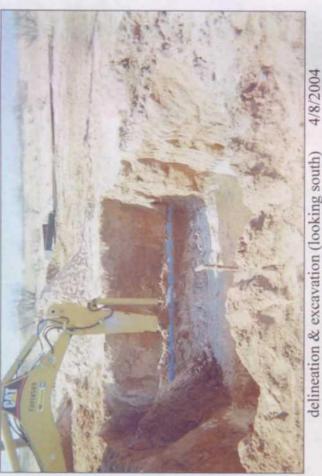
REPORT

#### RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

OME OF COLUMN	"INCTION !	11117	OFOTIO:	BOX LOC			INITN	BOYS	MENGIONO 1			
	JUNCTION	UNIT	SECTION	TOWNSHIP			JNTY	Length	Width	Depth		
BD	M-16-2	М	16	21S	37E	L	ea -	49	eliminated			
<u> </u>	······································		<u> </u>	<u> </u>								
LAND TYPE: E	BLM S	TATE	XFEE LA	NDOWNER				OTHER				
Depth to Grour	ndwater	72	feet	NMOCD	SITE ASSE	SSM	ENT RA	ANKING S	CORE:	10		
Date Started	4/6/20	004	Date Co	mpleted	7/15/2004	(	OCD W	itness	No.			
Soil Excavated	400	cubic ya	rds Exc	cavation Le	ngth 30		Width _	30	Depth	feet		
Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a												
FINAL ANALYTICAL RESULTS: Sample Date 4/13/2004 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	PID	G	RO	DRO	Chloride		100	CATION	DEPTH (ft)	ppm		
Location	ppm		ı/kg	ma/ka	mg/kg			ertical	5	117		
	0.0	<del>-</del>	0.0	<10.0	912	-			6			
SIDEWALLS	0.0		0.0	<10.0	1310		at	jct. box	7	199		
BOTTOM	0.0		0.0	<10.0	1140		ļ			148		
REMEDIATED	2.3		0.0	<10.0	202	-			8	241		
SOIL BORE @ 38 ft	2.3		0.0	<b>\10.0</b>	202		-		9	235		
									10	779		
									11	1302		
General Descriptio									12	1009		
using a backhoe while	PID field screen	ings and ch	loride field te	sts were condu	ucted at regula	ır			13	1475		
intervals. All PID read	ings throughout	the 30 x 30	x 12-ft-deep	excavation we	re 0.0 ppm and	<u></u>			14	1057		
laboratory analysis cor	firmed non-dete	ct TPH con	centrations; N	IMOCD guidel	ines were met		so	oil bore	15	933		
To 14 ft BGS, chloride	concentrations	did not exhi	bit a vertical o	lecline with de	pth so on 7/15	/04 <u>,</u>			20	1109		
a soil bore was initiated	d to further inves	stigate chlor	ide concerns.	The hollow s	tem auger was	<u> </u>			25	1068		
advanced to a depth o	f 38 ft BGS wher	re a conclus	sive trend of c	hloride decline	was				30	483		
observed, indicating no	on-saturated vad	lose conditi	ons (see grap	h). The excav	vated soils wer	е			35	271		
blended on site and ba	ckfilled into the	hole to 6 ft	BGS where a	1 ft compacte	d clay barrier				36	231		
was installed to safegu	ard against furth	ner downwa	rd migration o	of chloride. Th	e remaining so	oils			37	208		
were backfilled on top	of the clay and c	contoured to	the surround	ling terrain. Ti	nis junction bo	×			38	179		
has been eliminated.	The disturbed su	urface will be	e seeded with	a blend of nat	tive vegetation		4-w	all comp.	n/a	998		
and will be monitored f	or growth.						botte	om comp.	12	1241		
<u> </u>							reme	d. backfill	n/a	1140		
enclosures: chloride gr	aph, photos, lab	results, PII	D screenings,	soil bore log,	clay test, diagr	am		····				
I HEREBY	CERTIFY TH	HAT THE			E IS TRUE		COMPL	ETE TO T	HE BEST O	F <b>M</b> Y		
SITE SUPERVISOR	Joe Gatts	<u> </u>	SIGNATURE	: <u>[ [jve .</u>	Tall			MPANY	RICE Operation	g Company		
REPORT ASSEMBLE	D BY	Kristin Farr	is Pope	/ _ SIGNAT	URE_	/ · []]]/	$\frac{1}{2}$	Jarris	Pope			
ח	ATE	8/2/20	04	Т	TITLE			Project Sc	ientist			



1/27/2004 undisturbed junction box prior to excavation (looking west)



delineation & excavation (looking south)



looking north at 30 x 30 x 12-ft-deep excavation



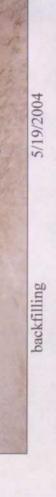
installing and compacting clay barrier at 6 ft BGS

5/11/2004

# BD jct. M-16-2

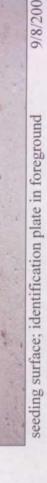


testing clay liner at 6 ft BGS



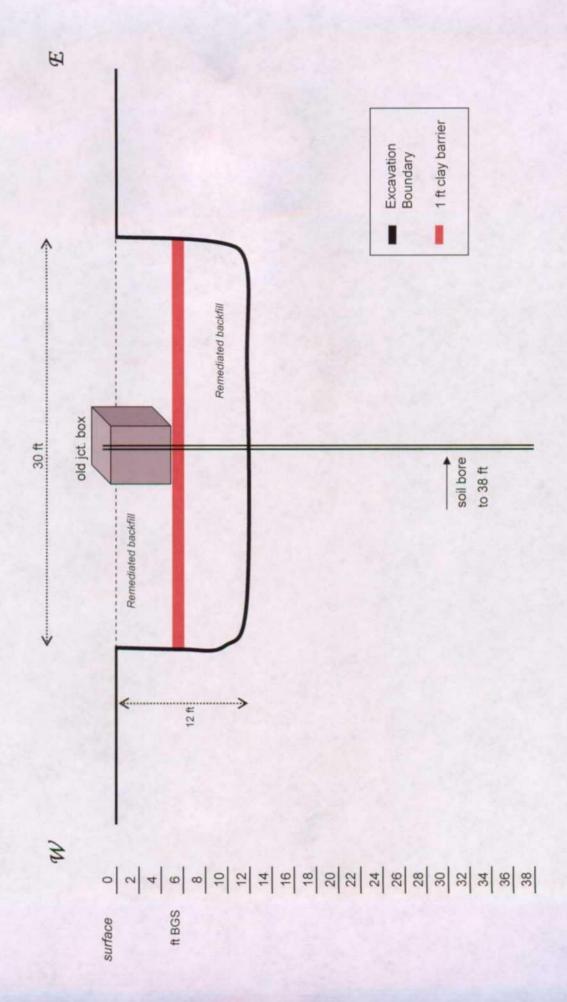


soil bore delineation



9/8/2004

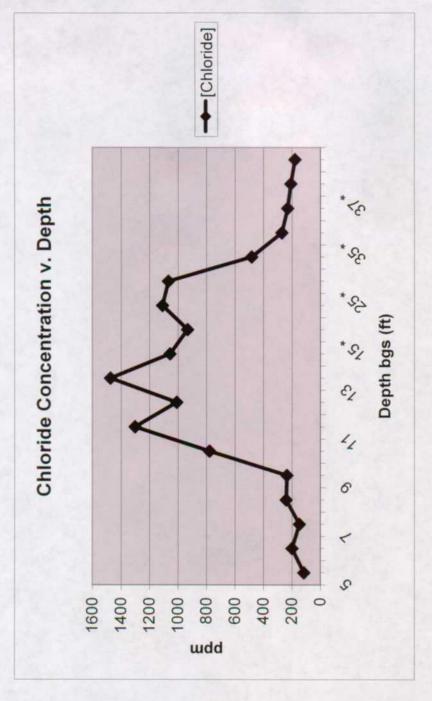
## BD jct. M-16-2 30 x 30 x 12 ft Excavation Cross-Section



# BD jct. M-16-2 T21S, R37E

Vertical Delineation at Source

[CI] ppm	117	199	148	241	235	622	1302	1009	1475	1057	933	1109	1068	483	271	231	208	179
Depth bgs (ft)	5	9	7	8	6	10	11	12	13	14	15*	20 *	25 *	30 *	35 *	36*	37*	38*



\* Soil bore samples

Groundwater = 72 ft

			Drew Parker; Mort Bates tkins Engineering Associates, Inc. Hollow Stem Auger 7/15/2004 7/15/2004 outh of former junction box ft Groundwater = 72 ft	Client: RICE Operating ( Project Name: jct. M-16- Location: BD SWD Syl Sec. 16, T218, Lea County.	2 stem	Well ID:
Depth (feet)	Split Sp	PID	Description	Lithology	bore	Additional Notes
0.0	O'MOTAGE	110		333333	HONE	Techno
1.0						
2.0						H
3.0						N. Carlot
4.0						84 4 8
5.0						W. F.
6.0						
7.0			0 - 15 ft			1
8.0			SILTY SANDS w/CALICHE loose, tan & white, dry			TITLE
9.0						
10.0					s B	
11.0					suttin	HE S
12.0					drill	
13.0					remainder of borehole backfilled with drill cuttings	115
14.0					filled	- F - 3c
15.0	933	9.4			Dack	
16.0				3888888	olof	
17.0					bore	The Arts
18.0			15 - 20 ft SILTY GRAVELS		er of	
19.0			loose, reddish tan, dry		ainde	
20.0	1109	2.6			rem	37 74
21.0				10000000		
22.0				1 1000		34 6 6
23.0			20 - 25 ft SILTY GRAVELS WCALICHE	1000		100
24.0			loose, tan to white, dry	199		31500
25.0	1068	5.3		1 1 191		
26.0				-		100
27.0				0.50		MALE I
28.0				- 1000		B 3 3
29.0				1900		13.11
30.0	483	5,6		17 1900	777	M. Th
31.0			25 - 38 ft	- 0500		
32.0			SILTY GRAVELS WICALICHE	10000		
33.0			loose, white to gray, dry			
34.0				1333		bentonite seal
35.0	271	4.2		1000		The second
36.0	231	2.5				1 1 1 1 1
37.0	208	4.5				
38.0	179	2.3			1//	lab = 202 ppm C

04/14/2004 11:15



PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: KRISTIN FARRIS 122 W. TAYLOR HOBBS, NM 88240 FAX TO:

Receiving Date: 04/13/04
Reporting Date: 04/14/04
Project Number: NOT GIVEN

Project Name: M-16-2
Project Location: BD

Sampling Date: 04/13/04 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

	GRO	DRO	
	$(C_8-C_{10})$	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS	DATE	04/13/04	04/13/04	04/14/04
H8602-1	4 WALL COMP.	<10.0	<10.0	912
H8602-2	REMD. BACKFILL	<10.0	<10.0	1140
H8602-3	BOTT. COMP. 12'BGS	<10.0	<10.0	1310
			<del> </del>	<del> </del>
Quality Con	trol	834	823	950
True Value	QC	800	800	1000
% Recovery		104	103	95.0
Relative Pe	rcent Difference	7.4	3.6	6.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB \*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

Date

H8602.XLS

ARDINAL LABORATORIES, INC.

Delryoned By:

(Circle One)

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Sampler - UPS - Bus - Other:

ENSE NOTE: Labely and Date

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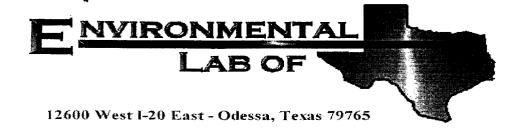
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PAGE CARDINAL LAB HOBBS Project Manager. Company Name: H8(0)-1 roject Location: roject #: ddress: THE WILLIAM empler Name: roject Name: Tions # Lab 1.D 393. 22 2111 Beechwood, Abiliene, TX 79603 HWALL M-16 RILL (915) 673-7001 Fax (915) 673-7020 Remo 9174 Kristen にい Ö à Operating Taylor DWD Faces で観火井 Project Owner: State: N/M Ä (G)RAB OR (C)OMP. 101 East Marfand, Hobbs, NIN 88240 (505) 393-2326 Fax (505) 393-2476 # CONTAINERS GROUNDWATER 88240 WASTEWATER SOIL HATRIC CRUDE OIL SLUDGE OTHER Phone #: State: Ç¥Y: Address: P.O. # Aftn; Company: ACID/BASE! PRESERY. ICE / COOL X 01 TA OTHER: Ž 4/13/04 4/3/04 40/c1/14 DATE SAMPLING 12:45 12:30 × Ci. 8015 TPH ANALYSIS REQUEST Page 9

Cardinal carriot accept verbal changes. Please fax written changes to 505-393-2478

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



#### Analytical Report

#### **Prepared for:**

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

Project: M-16-2 Jct Soil Bore Project Number: None Given Location: BD

Lab Order Number: 4G20005

Report Date: 07/23/04

Rice Operating Co. 122 W. Taylor

Project: M-16-2 Jct Soil Bore

Fax: (505) 397-1471

122 W. Taylor Hobbs NM, 88240 Project Number: None Given Project Manager: Roy Rascon

Reported: 07/23/04 10:16

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
10' South Grab @ 38' Bgs	4G20005-01	Soil	07/15/04 12:30	07/20/04 08:00

Project: M-16-2 Jct Soil Bore

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 07/23/04 10:16

#### Organics by GC Environmental Lab of Texas

		Reporting					•		
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
10' South Grab @ 38' Bgs (4G20005	-01) Soil			· · · · · · · · · · · · · · · · · · ·				<u></u>	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG42013	07/20/04	07/22/04	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	**	u	ti	н	**	
Total Hydrocarbon C6-C35	ND	10.0	"	11	"	11	n	12	
Surrogate: 1-Chlorooctane		83.2 %	70-1	30	"	11	"	"	
Surrogate: 1-Chlorooctadecane		77.4 %	70-1	30	"	"	"	"	

Project: M-16-2 Jct Soil Bore

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 07/23/04 10:16

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

Analyte	Result	Reporting Limit Units	Dilutio	n Batch	Prepared	Analyzed	Method	Notes
10' South Grab @ 38' Bg	s (4G20005-01) Soil							
Chloride	202	20.0 mg/kg W	et 2	EG42111	07/20/04	07/21/04	SW 846 9253	
% Solids	99.0	%	1	EG42011	07/20/04	07/20/04	% calculation	

Project: M-16-2 Jct Soil Bore

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 07/23/04 10:16

#### 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 EG42013 - Solvent Extraction										110100
Blank (EG42013-BLK1)	(GC)			Prepared:	07/20/04	Analyzed	l: 07/22/04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet	1100000		- Analy 200				
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	11							
Surrogate: I-Chlorooctane	47.1		mg/kg	50.0		94.2	70-130		· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	37.9		"	50.0		75.8	70-130			
LCS (EG42013-BS1)				Prepared:	07/20/04	Analyzed	1: 07/22/04			
Gasoline Range Organics C6-C12	470	10.0	mg/kg wet	500		94.0	75-125			
Diesel Range Organics >C12-C35	488	10.0	н	500		97.6	75-125			
Total Hydrocarbon C6-C35	958	10.0	п	1000		95.8	75-125			
Surrogate: 1-Chlorooctane	39.6		mg/kg	50.0		79.2	70-130			<del></del> -
Surrogate: 1-Chlorooctadecane	40.6		"	50.0		81.2	70-130			
Calibration Check (EG42013-CCV1)				Prepared:	07/20/04	Analyzed	i: 07/22/04			
Gasoline Range Organics C6-C12	420		mg/kg	500		84.0	80-120			
Diesel Range Organics >C12-C35	474		11	500		94.8	80-120			
Total Hydrocarbon C6-C35	894		11	1000		89.4	80-120			
Surrogate: 1-Chlorooctane	57.2			50.0		114	70-130			· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	42.3		"	50.0		84.6	70-130			
Matrix Spike (EG42013-MS1)	So	urce: 4G200	04-01	Prepared:	07/20/04	Analyzed	i: 07/22/04			
Gasoline Range Organics C6-C12	481	10.0	mg/kg dry	549	ND	87.6	75-125			
Diesel Range Organics >C12-C35	514	10.0	H	549	ND	93.6	75-125			
Total Hydrocarbon C6-C35	995	10.0	0	1100	ND	90.5	75-125			
Surrogate: 1-Chlorooctane	51.6		mg/kg	50.0	<del></del>	103	70-130			
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130			
Matrix Spike Dup (EG42013-MSD1)	So	urce: 4G200	04-01	Prepared:	07/20/04	Analyzed	l: 07/22/04			
Gasoline Range Organics C6-C12	471	10.0	mg/kg dry	549	ND	85.8	75-125	2.10	20	
Diesel Range Organics >C12-C35	492	10.0	"	549	ND	89.6	75-125	4.37	20	
Total Hydrocarbon C6-C35	963	10.0	ıı	1100	ND	87.5	75-125	3.27	20	
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	70-130			
Surrogate: 1-Chlorooctadecane	39.0		"	50.0		78.0	70-130			

Project: M-16-2 Jct Soil Bore

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 07/23/04 10:16

#### 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 EG42011 - General Preparation	(Prep)								
Blank (EG42011-BLK1)			Prepared	& Analyz	ed: 07/20/	04			
% Solids	100	%	· · · · · · · · · · · · · · · · · · ·						
Duplicate (EG42011-DUP1)	So	urce: 4G16012-01	Prepared	& Analyz	ed: 07/20/	04			
% Solids	99.0	%		98.0			1.02	20	
Blank (EG42111 - Water Extraction Blank (EG42111-BLK1)			Prepared	: 07/20/04	Analyzed	1: 07/21/04			
Chloride	ND	20.0 mg/kg W	et .						
Matrix Spike (EG42111-MS1)	So	urce: 4G20003-01	Prepared	: 07/20/04	Analyzed	1: 07/21/04			
Chloride	2200	20.0 mg/kg V	let 500	1720	96.0	80-120			
Matrix Spike Dup (EG42111-MSD1)	So	urce: 4G20003-01	Prepared	: 07/20/04	Analyzed	1: 07/21/04			
Chloride	2210	20.0 mg/kg V	/et 500	1720	98.0	80-120	0.454	20	
Reference (EG42111-SRM1)			Prepared	: 07/20/04	Analyzed	1: 07/21/04			
Chloride	5000	mg/kg	5000	-	100	80-120			

Project: M-16-2 Jct Soil Bore

Project Number: None Given Project Manager: Roy Rascon

Fax: (505) 397-1471

Reported: 07/23/04 10:16

#### **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:

Ralandkjubb

Date: 7-23-04

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.

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# Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: M - / 6

Project Loc: BD

Project #:

Phone: 915-563-1800 Fax: 915-563-1713

Rascon Kox Project Manager:

Company Address: A. Company Name

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						90079h										Special Instructions:	Relinquished by:	Relinquished by
						7										spec	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	Zelin [
						<u></u>	<u> </u>	120,000	(100000)		<u> </u>	<b>\$09600</b>	H8000001	2000	40 (90 f)			<i></i>

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

Client: Rice Operating Co.					
Date/Time: <u>07-20-04@ 0845</u>					
Order #: 4G 20005					
Initials: Jmm					
Sample Recei	int Checkli	ist			
Temperature of container/cooler?	(Yes)	No	3,0	C	
Shipping container/cooler in good condition?	(Yes	No			
Custody Seals intact on shipping container/cooler?	Yes	No	Not preser	11	
Custody Seals intact on sample bottles?	Yes	No	Not presen		
Chain of custody present?	Xes	No	Trot presen		
Sample Instructions complete on Chain of Custody?	Tes	No			
Chain of Custody signed when relinquished and received?	(TES)	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 Applicat	ole	
Other observations:					
Contact Person: Date/Time:Regarding:			Contacted b	)у:	
Corrective Action Taken:					
		<del></del>			
•			<del> </del>		

#### RICE OPERATING COMPANY

122 WEST TAYLOR HOBBS, NEW MEXICO 83240

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: 02-22-30

EXP. DATE: 11/20/04

METER READING

ACCURACY: 99.8

SERIAL NO: 104412

100 PPM

BALANCE

FILL DATE: 5/20/03

ACCURACY: + or - 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
. B D	M-16-2	M	16	21	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
15' Vant 5'	Ð	U. WALL	D
15' Unt 6'	0	4WALL COMP	6
15' West 7'	0	Bott. Comp	0
15'West 8'		Rend Backfill	D
15' West 9'	0	_	
15' Nest 10'	0		
15'West 11'	0		
15' West 12'	Ö		
15'West 13'	0		
15 West 14'	0		
N. WALL	0		
S. WALL	0		
E. WALL	0		

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

Signature

4/13/04 Date



#### LABORATORY TEST REPORT **PETTIGREW & ASSOCIATES, P.A.**

1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827



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

Project:

BD M - 16-2

Date of Test:

May 12, 2004

Material:

Red Clay

Test Method:

ASTM: D 2922

Depth:

Finished Subgrade

Test No. Location Dry Density

Maximum Moisture Depth

SG-1 Center of Pit 102.4 17.5

**Control Density:** 

109.5

ASTM: D 698

Optimum Moisture:

16.6%

Required Compaction:

95%

Lab No.:

04

Copies To:

Rice

MAY 2 0 2004

RICE OPERATING
HOBBS, NM

**PETTIGREW & ASSOCIATES** 

BY Recist.