## 1R - 426-100

## REPORTS

DATE:

8/04/2004

BD Jol N-16A

# DISCLOSURE REPORT

## RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE REPORT

				BOX LOCA					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUN	TY BOX D	IMENSIONS - FE	ET Depth
BD	N-16 A	N	16	21S	37E	Lea		oved 15 ft West	
LAND TYPE: I	BLMST	ATE X	FEE LAND	OWNER			OTHER		
Depth to Grou	ndwater	65	feet	NMOCD	SITE ASSE	SSME	NT RANKING S	CORE:	10
Date Started	4/16/2	004	Date Co	mpleted	6/2/2004	00	D Witness	No	
Soil Excavated	400	cubic ya	rds Exc	cavation Le	ngth 30	v	/idth <u>30</u>	Depth	12 feet
Soil Disposed	0	cubic ya	rds Of	fsite Facility	n/	'a	Location	n/a	<u> </u>
FINAL ANAL	YTICAL RE	SULTS:	Sampl	le Date	4/21/20	004	Sample De	epth	12 ft
	composite sam H and Chloride ab and testing p	laboratory t	est results	completed t	by using an	f	CHLOR	RIDE FIELD TE	STS
		,		<b>3</b> -			LOCATION	DEPTH (ft)	ppm
Sample	PID	GI	RO	DRO	Chloride		Vertical	8	1006
Location	ppm	mg	ı/kg	mg/kg	mg/kg		at junction	9	1328
4-WALL COMF	0.0	<1	0.0	<10.0	736		-	10	1081
воттом сом	P. 0.0	<1	0.0	<10.0	1420			11	1335
REMED. BACKF	0.0	<1	0.0	<10.0	608			12	1641
SOIL BORE @ 55	s ft XXX	X	xx	XXX	176		15 ft East	8	1378
9 1524									
General Description of Remedial Action: This junction box was delineated using 10 2130									
backhoe while chloride field tests and PID field screenings were conducted at regular intervals.  11 2709									
decline in chloride o	oncentrations with	depth or brea	dth was not o	bserved within	the			12	3159
0 x 30 x 12-ft-deep e	xcavation. All PID	readings were	e relatively lov	v and TPH lab	results confirm	ned	23 ft East	8	1306
oncentrations well be	elow NMOCD guide	elines. The ex	cavated soils	were blended	on site and the	en		9	1298
ackfilled to 6 ft BGS.	At 6 ft, a 1-ft com	pacted clay ba	arrier was inst	alled to inhibit	further downw	ard		10	1919
hloride migration. Th	ne remainder of the	excavation w	as backfilled	to the surface.	On 6/2/2004,			11	2084
hollow stem soil bor	e was initiated to fu	irther characte	erize chloride	impact. Altho	ugh a general			12	2157
lecline in chloride wa	s observed, results	were not con	clusive as mo	isture was end	countered at		4-wall comp.	n/a	913
pprox. 40 ft to 60 ft (	see graph). The be	orehole was pl	ugged and se	aled with		<del></del>	bottom comp.	12	1400
entonite (see bore lo	g). A new watertig	ht junction box	was built 15	ft west of this	site.		remed. backfill	n/a	653
ADD	ITIONAL EV	ALUATIO	N IS <i>LO</i> M	PRIORI1	Ϋ́		Soil Bore	55	365
nclosures: chloride g	raph, photos, lab r	esults, PID fiel	ld screenings	, clay test, bor	e log, diagram			• • • • • • • • • • • • • • • • • • • •	
	BY CERTIFY TI		KNOV	ON ABOVE VLEDGE AN					
SITE SUPERVISOR	Joe Gatts	SIG	NATURE	you so			-	E Operating Com	pany
REPORT ASSEMBLE	D BY K	istin Farris Po	pe	SIGNATURE	- Ka	19/1	n Ctarris	v tope	
С	PATE	8/4/2004	<del></del>	TITLE			Project Scientis	st /	
			_						

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

# BD jct. N-16 'A'



undisturbed junction box 11/5/2003



delineation 10 ft south of junction 4/16/2004

unit 'N', Sec. 16, T21S, R37E



vertical delineation trench at junction box 4/16/2004



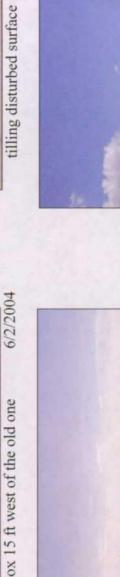
testing compacted clay

5/10/2004

# BD jct. N-16 'A'



soil bore; new junction box 15 ft west of the old one



9/17/2004



9/17/2004

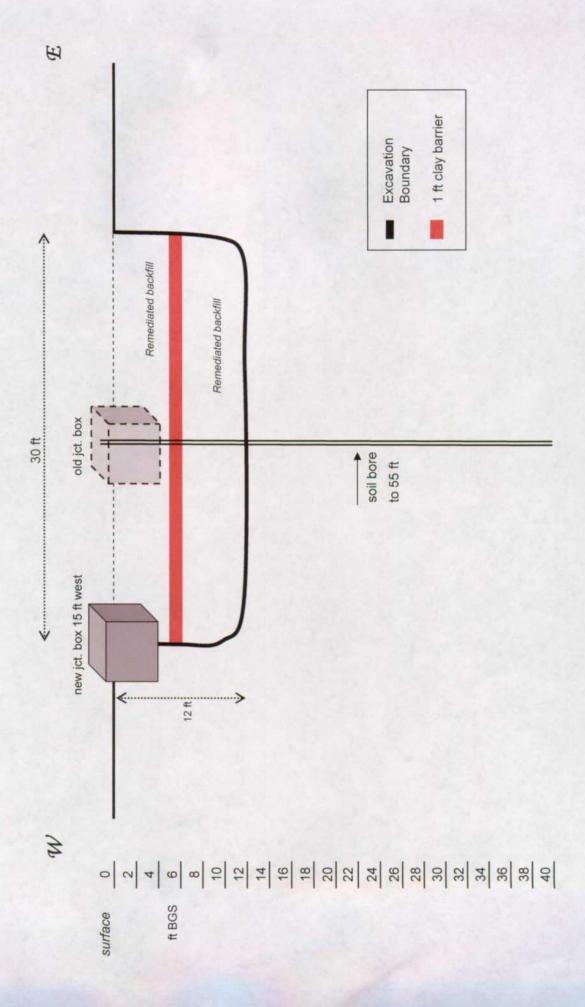
seeding

watering seed

9/17/2004

# BD jct. N-16 A 30 x 30 x 12 ft

Excavation Cross-Section



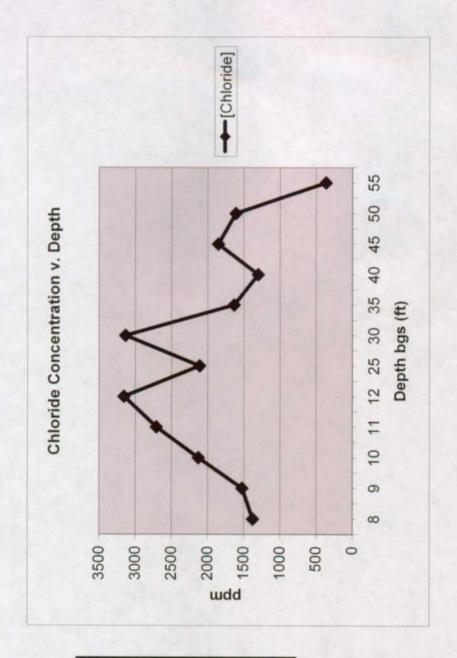
## **BD N-16 A**

T21S, R37E

15 ft East of Junction

[CI] ppm	1378	1524	2130	2709	3159	2113	3135	1635	1302	1854	1612	365
Depth bgs (ft)	8	6	10	11	12	25	30	35	40	45	50	55

Groundwater = 65 ft



### LOG OF SOIL BORE

Kristin Farris Pope RICE Operating Company

	Logger:		Drew Parker; Mort Bates	Client:		Well ID:	
	Driller:	_	Atkins Engineering Associates, Inc.	RICE Operating C	ompany		
	ng Method:		Hollow Stem Auger	Project Name:			
	Start Date:		6/2/2004	Jct. N-16 'A	1		
	End Date:		6/2/2004	Location:		SB-1	
Notes				BD SWD Sys	tem	7 17 17 15	
		TD = 6	60 ft Groundwater = 65 ft	Sec. 16, T21S,	R37E		
				Lea County, I	NM		
Depth	Split Sp		Description	Lithology	bore	Additional	
(feet)	chloride	PID	Description	Entirology	hole	Notes	
0.0						*	
			Transfer State of London		11111	3 ft of bentonite sea	
5.0						TO BE SELECT	
			0 - 20 ft		00	417 77	
10.0			CLAYEY SAND w/CALICHE		ing		
			loose, tan, dry		1 5	ELG VICTOR	
15.0					=	13 9 68 18	
					p		
20.0					ŧ		
			20 - 27 ft		5		
25.0	2113	9.0	SILTY GRAVELS W/SILTY SANDS		<u>⊕</u>		
			loose, brown, dry		1 8	17 1 1 1 1 3	
30.0	3135	2.7	27 - 32 ft CLAYEY GRAVELS		g	34-3-7	
			loose, tan, dry		9		
35.0	1635	3.3	32 -37 ft CALICHE firm, white, dry		h		
			or of the sound in the sound index in the sound in the sound in the sound in the sound in the so		ore		
40.0	1302	2.7	37 - 42 ft CLAYEY SAND loose, tan, damp		f P	N. O. C. C.	
			The series of the series will same		0	150 M 13 FM	
45.0	1854	3.3	42 - 53 ft		de		
			CLAYEY SAND		ā	The state of	
50.0	1612	0.1	loose, tan to brown, damp		remainder of bore hole backfilled with drill cuttings		
55.0	365	0.0	F2 C0 B	0000000000		1 1 1 1 1 1 1	
33.0	303	0.0	53 - 60 ft SILTY SAND		111111	To the same of	
60.0			loose, red, moist			lab = 176 ppm	



PHONE (325) 673-7001 - 2111 BEECHWOOD - ABILENE, TX 78803

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

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

Receiving Date: 04/21/04 Reporting Date: 04/22/04

Project Number: NOT GIVEN

Project Name: N-16 Project Location: BD Sampling Date: 04/21/04 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP Analyzed By: BC/AH

·	GRO	DRO	
	$(C_6-C_{10})$	(>C <sub>10</sub> -C <sub>28</sub> )	Ci*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(m <b>g</b> /Kg)

•		•		
ANALYSIS	DATE	04/21/04	04/21/04	04/22/04
H8625-1	BOTT, COMP. AT 12'	<10,0	<10.0	1420
H8625-2	4 WALL COMP	<10.0	<10.0	736
H8625-3	REMD. BACKFILL	<10.0	<10.0	608
Quality Con	trol	777	736	1000
True Value	QC	800	800	1000
% Recovery	′	97.2	92.0	100
Relative Pe	rcent Difference	2.6	0.4	5.0

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

Date

H8625.XLS

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC. 2111 Beechwood, Abliène, TX 79603 101 East Marland, Hobbs, MN 88240

	(915) 673-7001 Fax (915) 673-7	(020 (505) 393-2326 Fax (505) 393-2476	c (505) 393-2476			.:*		2.	Page	94
Company Name:	Rice Doors 1, m		01.778				ANALYSIS		REQUEST	
Project Manager:	Jos 60, 445		P.O. #		-	_	_			
Address: 127	3	,	Company:				· ·		<u>.</u>	
CILD: Hobbs	State: Nov	1 ZIP: 88240	Attre						<del></del> :_	
Phone # 39.2	7-9174 Fax#		Address:		₹				<del></del>	
Project #:	Project Owner.		CH.X:		<del></del>				·	
Project Name:	N-16	,	Startec Zlp:							
Project Location:	T :		Phone #:		51				<del></del>	
Sampler Name:	J. 64 +45	*	F3X 4.		92	-				
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Delivered Bv.	Delivered By: (Circle One)	Sample Condition	) <del>-</del>	_						. '
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\* Cardinal cannot accept verbal changes. Please fax written changes to 605-393-2476.





PHONE (325) 873-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR RICE OPERATING ATTN: KRISTIN FARIS 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 06/14/04

Reporting Date: 06/15/04 Project Number: NOT GIVEN

Project Name: N-16 SOIL BORE

Project Location: B-D N-16

Analysis Date: 06/15/04 Sampling Date: 06/02/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

LAB NUMBER	SAMPLE ID	CI <sup></sup> (mg/Kg)
H8823-1	N-16 55' BGS	176
Quality Control		1020
True Value QC		1000
% Recovery		102
Relative Percent	Difference	1.0
ETHOD: Standard	Methods	4500-CFB

Note: Analysis performed on a 1:4 w:v aqueous extract.

Enemist (

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims important in the contract or tort, shall be limited to the amount paid by client for analyses. All claims important in the contract or tort, shall be limited to the amount paid by client for analyses. All claims important in the contract or tort, shall be limited to the amount paid by client, its aubsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC. 2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 393-2476

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## 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

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: + ~ -270

SYSTEM	JUNCTION	TINU	SECTION	TOWNSHIP	RANGE
BD	N-16	N	16	z/	37
L		·	<u> </u>	·	

DED DEGLET CE		
PID RESULT	SAMPLE	PID RESULT
0		P155-01
0		
	-	
0		
,		
·		
		0

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

Jignature

4/21/04 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

**Test Method:** 

ASTM: D 2922

Red Clay

Project:

BD N - 16

Date of Test:

May 10, 2004

Depth:

Material:

Finished Subgrade

**Dry Density** % Maximum Test No. Location % Moisture Depth

SG-1

Pit - 20' W. & 10' S. of the NE Corner

103.1

13.9

**Control Density:** 

109.5

ASTM: D 698

Optimum Moisture:

16.6%

**Required Compaction:** 

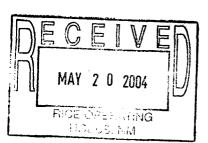
95%

Lab No.:

04 6434-6435

Copies To:

Rice



**PETTIGREW & ASSOCIATES**