1R-426-20

REPORTS

DATE:

-20-0

BD Jct A-1-1

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RECEIVED

MAR 2.5 2000 Environmenial Bureau Oil Conservation Division



RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

				BOX LOCAT	TION				
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	IMENSIONS -	FEET
Blinebry-Drinkard				226	265	102	Length 9'	Width 7'	Depth 6'
(BD)	JCt. A-1-1	А	1 '	223	300	Lea		eliminated	
LAND TYPE: E	BLM	STATE	FEE LAI	NDOWNER	Nymey	ver Property	OTHER		
Depth to Grour	ndwater	137	feet	NMOCE	SITE ASS	ESSMENT	RANKING S	CORE:	20
Date Started	12/4/	2007	Date Cor	mpleted	5/1/2008		Nitness	no	
Soll Excavated	389	cubic yai	rds Exc	avation Ler	ngth <u>35</u>	Width	25	Depth	12feet
Soll Disposed	108	cubic ya	^{-ds} Of	isite Facility	Suno	lance	Location	Eunic	e, NM

DRO

mg/kg

<10.0

<10.0

19.6

FINAL ANALYTICAL RESULTS:

PID (field)

ppm

0.0

n 4

0.0

Sample

Location

4-WALL COMP.

BOTTOM COMP.

BACKFILL COMP.

Sample Date 12/19/2007, 4/30/2008

Chlorides

mg/kg

2,511

1.584

1,855

Sample Depth

12 ft, 120 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.

GRO

mg/kg

<10.0

<10.0

<10.0

CHLORIDE FIELD TESTS

	LOCATION	DEPTH	mg/kg
	4-wall comp.	n/a	1,530
	bottom comp.	12'	1,130
	backfill comp.	n/a	1,600
	background	6"	140
		15'	1,299
		20'	2,195
ļ		25'	2,089
ĺ		30'	1,026
		35'	731
		40'	834
		45'	1,136
		50'	1,303
ļ		55'	1,212
	SOIL BORING	60'	1,530
	#1 at the former junction (source) 4/30/2008	65'	1,357
		70'	1,311
	4/30/2008	75'	1,003
		80'	804
		85'	900
ĺ		90,	631
		95'	762
		100'	997
		105'	600
		110'	403
		115'	339
		120'	364
ld :	screenings, cross	-section, clay tes	t, boring log

SOIL BORING #1 25 ft grab 1,900 SOIL BORING #1 120 ft grab **CITE WARKS 的成为的**市东沿 288 General Description of Remedial Action: This junction was eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 35x25x12-ft-deep excavation. Chloride field tests performed on each sample yielded elevated concentrations that dld not relent with depth. Organic vapors were measured using a PID, which yielded low concentrations. Representative composite samples were sent to a commercial laboratory for analysis of chloride and TPH, which confirmed elevated chloride concentrations. The excavated soil was blended on site with clean imported soil and returned to the excavation up to 5 ft below ground surface (BGS). At 5-4 ft BGS, a 1-ft thick clay barrier was installed with a clay density tests performed on 12/27/2007. The remaining fill was returned to the excavation and clean, imported blow sand was used to top cap the site and to contour to the surrounding area. On 12/31/2007, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. To further investigate depth of chloride presence, two soil borings were initiated on 4/30/2008 and 5/1/2008 to a depth of 120 ft BGS for SB #1 an 40 ft BGS for SB #2. Soil samples were collected every 5 ft and tested for chlorides. The deepest sample and the highest chloride concentration from field tests were analyzed by a commercial laboratory for chlorides. Each borehole was plugged with bentonite to the ground surface. NMOCD was notified of potential groundwater impact on 1/7/2009. ADDITIONAL EVALUATION IS HIGH PRIORITY enclosures: photos, lab results, PID fie

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF. SITE SUPERVISOR Roy Rascon SIGNATURE not available COMPANY RICE OPERATING COMPANY REPORT ASSEMBLED BY Katie Jones INITIAL Lany Bruce Baher fr. DATE 1-20-09 PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.



clay density test, facing north





site complete with clay marker, facing east







soil boring at the former junction box

4/30/2007



ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: ROY R. RASCON 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 12/20/07 Reporting Date: 12/21/07 Project Number: NOT GIVEN Project Name: BD JCT A-1-1 Project Location: NOT GIVEN

Sampling Date: 12/19/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: KS Analyzed By: CK/HM

	DRO	GRO
CI*	(>C ₁₂ -C ₂₈)	(C ₆ -C ₁₂)
(mg/k.g)	(mg/kg)	(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS [DATE	12/20/07	12/20/07	12/21/07
H13956-1	5PT. BTTM. COMP. @ 12' BGS	<10.0	<10.0	1584
H13956-2	4 WALL COMP. @ 35X25	<10.0	<10.0	2511
H13956-3	5PT BLENDED BACKFILL	<10.0	19.6	1855
Quality Cont	rol	519	495	500
True Value C	20	500	500	500
% Recovery		104	99.0	100
Relative Per	cent Difference	5.6	18.7	<0.1

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

PEC 2 6 26.7

Kene

H13956TCL Rice

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, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service on o event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliate 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.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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RDINAL LABORATORIES 2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240

(325) 673-7001 FAX (325)	673-7020 (505).	393-2	326	FAX	<u>;</u> 205	E6E (-247	<u> </u>	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100												
Company Name: RICE OPERATING CO.							蠲			BILL TC		tin dari			A	NALY	'SIS R	EQUES	ЪТ			
Project Manager: ROY R. RASCON							<u>a</u> .	0. #	<u>.</u>													
Address: 122 WEST TAYLOR						1	ပိ	mpaı	ıy:													100,000
City: HOBBS State	te: NM	Zip:	8824(Ati	ä														
Phone #: (505) 393-9174 Fax #	¥: (505) 397-	1471					ΡЧ	dres								((
Project #: Proje	ect Owner:						Ē	y:							<u> </u>	3						
Project Name: BD JCT A-1-1							Sta	te:		Zip:		1)	$\widehat{\bigcirc}$	<		a na salada		
Project Location:							Ē	one #)	\bigcirc				
Sampler Name: ROY R. RASCON							E.	:#:				<u></u>	1				,		1			
		Ъ.	μ	Σ	ATR	<u> </u>	Ц	PRE	SER	V SAMI	PLING	, ,						<u>></u>	<u> </u>			
<u>FOR LAB</u> USE ONLY LAB ID # SAMPLE I.D.		(G)RAB OR (C)OM	BROUNDWATER # CONTAINERS	WASTEWATER	TIOS	ar note DID	OTHER :	ACID/BASE:	OTHER - ICE / COOL	DATE	TIME	W SIOS HAL	cr-	BLEX					<u></u>	and the second state of th		
ALTT6 -1 5pt bitin comp @ 12'bgs		с			×		-		X	12/19/0	7 1130	×	×									
-7 4 wall comp @ 35X25		U			Х				×	12/19/0	7 1530	×	х									
		U	_		×				Х	12/19/0	7 1600	Х	X									
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PLEASE NOTE: Liability and Damages. Cardinal: analyses. All claims including those for negligence a ervice. In no event shall Cardinal be liable for incid	's liability an and any other lental or cons	d clie r caus seque	se wh se wh stal d	xclus atsoe lamas	sive n ver sl zes. n	smed tall b tclud	v for : e deel ing w	inv cl ned v ithoui	aim a vaive	d unless ma d unless ma tation, busii	her based in de in writing ress interrupt	contra- and re ions. le	ot or tori ceived f ss of us	. shall I ov Card e, or lo	inal wi ss of pi	ed to th thin 30 ofits in	e amou davs af curred	nt paid fer com bv clien	by the che pletion of t, its subsi	put for the the applic idiaries.	able	
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Time																		e i ni	ndfoi			
Delivered By: (Circle One) Sampler (UPS - Bus - Other:				Ves	Ves L	Cond	ition	ں 		KED BY: ittials)	<u></u>				3)	Junce (n MS:					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (575) 393-2326 • 1.01 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: KRISTIN FARRIS-POPE 122 WEST TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471 MAY 0.9 2008

RICE OPERATING HOBBS, NM

Receiving Date: 05/05/08 Reporting Date: 05/05/08 Project Number: NOT GIVEN Project Name: BD JCT. A-1-1 Project Location: BD JCT. A-1-1



Analysis Date: 05/05/08 Sampling Date: 04/30/08 & 05/01/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: KS

CI (mg/kg)

LAB NO. SAMPLE ID

(m

H14739-1	SB #1 @ 25'	1,900
H14739-2	SB #1 @ 120'	288
H14739-3	SB #2 @ 10'	1,330
H14739-4	SB #2 @ 40'	112
Quality Contr	rol	500
True Value C	QC	500
% Recovery		100
Relative Per	cent Difference	2.0

METHOD: Standard Methods 4500-CIB Note: Analyses performed on 1:4 w:v aqueous extracts.

Enst Supretos

H14739 RICE

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Y	101 East Marland, Hobbs, NM 88240	2111 Beechwood,	Abilene, TX 79603			
Company Nam	(505) 393-2326 FAX (505) 393-2476 e: Rine Onerating Company	(325) 673-7001 FA	.X (325)673-7020 811 1 TO		ANAL VSIS BEOLIEST	
Project Manag	er: Kristin Pope		P.O. #:			
Address: 122	2 West Taylor		Company:			
city: Hobbs	State: NM Zip	: 88240	Attn:		(
Phone #: 393-	-9174 Fax #: 397-1471		Address:			· · · · · ·
Project #:	Project Owner:		City:	ç		
Project Name:	BD jct. A-1-1		State: Zip:	səj		
Project Locatic	an: BD jct. A-1-1		Phone #:	rio		
Sampler Name	: Lara Weinheimer		Fax #:	olr		
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLI	NG		
Lab I.D.	Sample I.D.	¥ CONTRINERS BROUNDWATER MASTEWATER SOIL DIL DIL SLUDGE	ртнек : ce / cool dther : ртнек : В Д) JWE J		
1414739-1	SB #1 @ 25'	1	 ✓ 4/30/08 	09:13 1 ~		1
2-	SB #1 @ 120'	1	✓ 4/30/08	10:43		l
5-	SB #2 @ 10' 6	1	✓ 5/1/08	02:44		1
7	SB #2 @ 40' 6		✓ 5/1/08	02:52		
PLEASE NOTE: Liability analyses. All claims inclut service. In no event shall effiliates or successors aff	and Damages. Cardinal's liability and client's exclusive remedy for any clain ding those for negrigence and any other cause whatsoever shall be deemee Cardinals be able tor inclusted are consequential damages. Including withou sing out's of related to the performance of services linetunder. No Cardinals	n arising whether based in contract of waived unless made in writing and t limitation. business interruptions, to condress of whether such claim is	r tott, shall be limited to the amount paid r tott, shall be limited to the amount paid sectived by Cardinal within 30 days after as of use, or loss of profits incurred by cl based inom any of the above stated tost	J by the client for the completion of the applicable litent, its cutscitaries.		
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L. W	einheimer Time:	Untre X	that	REMARKS:		1
Relinquished E	3y: Date: Re Time: A	ceived By:		email results		
Delivered By	/: (Circle One)	Sample Conditic Cool _Intact	n CHECKED BY: (Initjals)	kpope@riceswd.c	om; jpurvis@riceswd.com; פימיל רמש	
Sampler - UPS	i - Bus - Other:	L Yes F Yes	6124111		1100.DWC.2	

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RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240 PHONE: (505) 393-9174 FAX: (505) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

CK.	
MODEL	X
NO.	

 MODEL: PGM 7600
 SERIAL NO: 110-013676

 MODEL: PGM 7600
 SERIAL NO: 110-013744

 MODEL: PGM 7600
 SERIAL NO: 110-012383

 MODEL: PGM 7600
 SERIAL NO: 110-012920



GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : 07-3353	EXPIRATION DATE: 4-4-09
FILL DATE: 10-4-07	METER READING ACCURACY: 100.0

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	A-1-1	A	1	228	36E

SAMPLE ID	PID	SAMPLE ID	PID
N WALL COMP	0.8		
S WALL COMP	0.2		
E WALL COMP	0.3		
W WALL COMP	0		
5 PT BOTTOM COMP @ 12'BGS	0.4		
4 WALL COMP (a) 35' X 25'	0		
	0		
BLENDED BACKFILL COMP SPT COMP	0		
	· · · · · · · · · · · · · · · · · · ·		
			· · · · · · · · · · · · · · · · · · ·
		······	

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

I Rustin SIGNATURE:

DATE: 12-19-07



Excavation Cross-Section

Z





Excavation Boundary

Clay Barrier

	PETTI	ABORATORO TEST REPORT GREW & ASSOCIATES, P. 1111) M. GRIMES HOBOS, NM 36240 (595) 393-9627	Α.	AND IN AND AND AND AND AND AND AND AND AND AN
¥0:	Rice Operating Attn: Hauk Conder 322 W. Taylor	Maturial: F	Red Clay	
	Hobbs, MM 88240	Test Method:	ASTM: D 3	2922
Project:	General Information Project No. 2007.1007		(COPY
Date of Test:	December 27, 2007	Dapih:	See Below	
		Depth of Probe	: <u>6</u> °	
		Erry Dansity	07 FX 7 S	2
Test No.	Location	% Max	% Maisture	Depin
SG 15	BD Jct. A1-1 Center of 35' x 25'	95.2 Hole	10.1	۳SG

 Control Density:
 104.4 ASTM: D.695
 Optimum Moisture:
 20.3%

 Required Compaction:
 90%
 Densometer ID:
 815 PETTIGREW & ASSOCIATES

 Lab No.:
 07.11019-11019a
 BY:
 24.172.14441144

 Oppies To:
 Rice Operating
 BY:
 24.04441144

 Dy:
 24.044441144
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• •		Logger:	1	Lara Weinheimer	Cli	ent:		Well ID:
		Driller:		Harrison & Cooper Drilling		RICE Operatin	g Company	
	Drillio	ng Method:	Air rotary		Pro	ject Name:		
		Start Date:		4-30-08		BD jct. /	A-1-1	
		End Date:		4-30-08	Lo	cation:		SB - 1
	<u>Comm</u>	ents:	SOURC	o of the former let, her site	BD SWD System			
	L		sourc	e of the former jet, box site	l ur	unit 'A' Sec 1 T22S_R36E		
	TD = 120 f			GW = 124 ft		Lea Cour	ity; NM	
	Depth	chloride	X 1				l Sc	oil Bore
	(feet)	field tests	PID	Description		Lithology	Con	struction
				10 - 15 ft	1	· .		
				VERY FINE SAND				
	15	1299		some rock, light brown, dry				
				15 - 20 ft				
	20	2195		vert fine SAND				
		2100		20 - 25 ft	1			
				VERY FINE SAND				
ž.	25	2089		some rock, light brown, dry				
	Lab	1900		25 - 30 ft				
\$				VERY FINE SAND				
	30	1026		some rock, reddish-brown, dry				
	35	731		30 - 45 ft				
	00			VERY FINE SAND				
				orangy-brown, slightly moist				
	40	834						
	15	1100						
	45	1136		45 50 ft				
	50	1303		orangy-brown, dry				
				50 - 55 ft				
				VERY FINE SAND				
	55	1212		some rock, reddish-orange, dry				
	60	1530						
	00	1000		some rock light brown dry				
	65	1357						
								bentonite
		4044						
	70	1311						
ŀ	-			some rock light brown dry				
	75	1003		some rock, ign brown, ary				
ľ							N.F.	
[80	804		······································				
				80 - 85 ft				
		000		VERY FINE SAND				
ŀ	85	900		some rock, light brown, dry	$\left\{ \right\}$		Rest .	
.								
	90	631		85 - 100 ft				
				VERY FINE SAND				
·						•	• 68	

•			some rock, reddish-brown, dry	1
	95	762		
	100	997		
			100 - 105 ft	
			VERY FINE SAND	
	105	600	sandstone rock, light brown, dry	
			105 - 115	
	110	403	VERY FINE SAND	
			reddish-brown, dry	
	115	339		
			115 - 120	
			VERY FINE SAND	
	120	364	sandstone rock, light brown, slightly moist	
	Lab	288		

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