1R-426-282

REPORTS

DATE:



1R426-282

BD Jct. I-21 Vent 2010 NPR - 2 2011 Stice and a strong the strong of the strong DISCLOSURE

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RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

				BOX LOCA	TION					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DI	MENSIONS -	FEET	
Blinebry-Drinkard	Jct. I-21			000	075		Length	Width	Depth	_
(BD)	Vent		21	225	37E	Lea	•	eliminated	•	
LAND TYPE: E	BLM	STATE	FEE LA	NDOWNER	Milla	ard Deck	OTHER_			
Depth to Grour	ndwater	66	feet	NMOCE	D SITE ASS	ESSMENT	RANKING SC		10	
Date Started	4/15/	2009	Date Cor	mpleted	9/8/2010		Witness	no		
Soil Excavated	44.4	cubic yar	ds Exc	avation Le	ngth <u>10</u>	Width	10	Depth	<u>12</u> fe	eet
Soil Disposed	24	cubic yar	ds Of	fsite Facility	Sunc	lance	Location_	Eunic	e, NM	
AL ANALYTI	CAL RES	SULTS:	Sample	e Date	8/16/201	0	Sample Dep	oth	12 ft	

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample	Benzene	Toluene	Ethyl Benzene	Total Xylenes	GRO	DRO	Chlorides
Location	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
4-WALL COMP.	<0.050	0.774	0.468	2.85	293	3610	192
BOTTOM COMP.	<0.100	3.34	1.35	8.25	858	4,010	368
BACKFILL	<0.100	1.27	0.579	3.81	151	1350	96

General Description of Remedial Action: This junction was eliminated during the pipeline replacement/upgrade program. After the junction box was removed an

CHLORIDE FIELD TESTS

DEPTH

n/a

12

n/a

6"

2'

4'

6'

8'

10'

12'

mg/kg

251

335

175

181

55

60

145

203

235

238

the pipeline replacement/upgrade program. After the junction box was removed, an
investigation was conducted using a backhoe to collect soil samples at regular intervals
creating a 10X10X12-ft. deep excavation. Chloride field tests were performed on
each sample yielded relatively low concentrations. Organic vapors were measured
using a PID, which yielded elevated concentrations. The excavated soil was blended
on site and representative samples were collected from the blended backfill, the bottom
of the excavation, and excavation walls. The representative samples were sent to a
commercial laboratory for analysis of chloride, TPH, and BTEX. The excavation was
backfilled to ground surface and contoured to the surrounding area. On 9/08/2010, the
site was seeded with a blend of native vegetation and is expected to return to a
productive capacity at a normal rate. An identification marker was placed on site to
mark the location of the former box for future evaluation. NMOCD was notified of

potential groundwater impact on 2/28/2011

ADDITIONAL EVALUATION IS MEDIUM PRIORITY

enclosures: photos, lab results, PID screenings, BTEX comparison study, chloride curve

LOCATION

4-wall comp.

bottom comp.

backfill comp.

background

vertical

delineation at 5 ft.

east of junction

(source)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.						
	Robert Egans		palet your	COMPANY	RICE OPERATING COMPANY	
REPORT ASSEMBLED BY	Larry Bruce Baker Jr.		_LBB			
PROJECT LEADER	Larry Bruce Baker Jr.		Lany Poruce Bacher M.	DATE	3-22-11	

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





Site prior to excavation

4/15/2010



8/10/2010

Unit I, Section 21, T22S, R37E



Delineation trench being excavated

8/10/2010



9/08/2010





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

CARDINAL Laboratories

Analytical Results For:

Rice Operating Company Bruce Baker 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	08/16/2010	Sampling Date:	08/16/2010
Reported:	08/23/2010	Sampling Type:	Soil
Project Name:	BD JCT I-21	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	BD JCT I-21 (22/37)		
Project Number: Project Location:	NOT GIVEN BD JCT I-21 (22/37)	Sample Received By:	Jodi Henson

Sample ID: 5 PT. BOTTOM COMP @ 12' (H020655-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/23/2010	ND	1.11	111	1.00	3.12	
Toluene*	3.34	0.100	08/23/2010	ND	0.907	90.7	1.00	6.95	,
Ethylbenzene*	1.35	0.100	08/23/2010	ND	0.900	90.0	1.00	1.93	
Total Xylenes*	8.25	0.300	08/23/2010	ND	3.16	105	3.00	2.99	
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 80-120)						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	08/18/2010	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Апајуze	d By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	858	50.0	08/17/2010	ND	169	84.7	200	1.68	

ND

08/17/2010



4010

50,0

Surrogate: 1-Chlorooctadecane 21.7%



165

82.3

200

2.36

Cardinal Laboratories

DRO >C10-C28

*=Accredited Analyte

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Celus D. Kune

Celey D. Keene, Lab Director/Quality Manager





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Rice Operating Company Bruce Baker 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	08/16/2010	Sampling Date:	08/16/2010
Reported:	08/23/2010	Sampling Type:	Soil
Project Name:	BD JCT I-21	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	BD JCT I-21 (22/37)		

Sample ID: 4 WALL COMP 10 X 10' (H020655-02)

BTEX 8021B mg/kg Analyzed By: ZL Qualifier Analyte Result Reporting Limit Analyzed Method Blank BS True Value QC RPD % Recovery Benzene* < 0.050 0.050 08/17/2010 ND 1.00 1.11 111 3.12 Toluene* 0.774 0.050 08/17/2010 ND 0.907 90.7 1.00 6.95 08/17/2010 Ethylbenzene* 0.468 0.050 ND 0.900 90.0 1.00 1.93 **Total Xylenes*** 2.85 0.150 08/17/2010 ND 3.16 105 3.00 2.99 Surrogate: 4-Bromofluorobenzene (PIL 106 % 80-120 Chloride, SM4500Cl-B mg/kg Analyzed By: HM Reporting Limit Analyte Result Analyzed Method Blank BS True Value QC RPD Qualifier % Recovery Chloride 192 16.0 08/18/2010 ND 400 448 112 3.64 TPH 8015M mg/kg Analyzed By: AB S-06 Anaivte Result Analyzed Reporting Limit Method Blank True Value QC Qualifier BS % Recovery RPD GRO C6-C10 293 50.0 08/17/2010 ND 169 84.7 200 1.68 DR0 >C10-C28 3610 50.0 08/17/2010 ND 165 82.3 200 2.36 21.0 % Surrogate: 1-Chlorooctane 70-130 Surrogate: 1-Chlorooctadecane 21.0% 70-130



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Celer D.t Sune

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Rice Operating Company Bruce Baker 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	08/16/2010	Sampling Date:	08/16/2010
Reported:	08/23/2010	Sampling Type:	Soil
Project Name:	BD JCT I-21	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	BD JCT I-21 (22/37)		
Project Location:	BD JC1 1-21 (22/37)		

Sample ID: BLENDED BACKFILL (H020655-03)

BTEX 8021B	mg/	'kg	Analyze	d By: ZL					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	08/23/2010	ND	1.11	111	1.00	3.12	
Toluene*	1.27	0.100	08/23/2010	ND	0.907	90.7	1.00	6.95	
Ethylbenzene*	0.579	0.100	08/23/2010	ND	0.900	90.0	1.00	1.93	
Total Xylenes*	3.81	0.300	08/23/2010	ND	3.16	105	3.00	2.99	
Surrogate: 4-Bromofluorobenzene (PIL	92.8	% 80-120)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/18/2010	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyze	d By: AB					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	151	50.0	08/17/2010	ND	169	84.7	200	1.68	
DR0 >C10-C28	1350	50.0	08/17/2010	ND	165	82.3	200	2.36	
Surrogate: 1-Chlorooctane	20.4	% 70-130	······				· · · · · · · · · · · · · · · · · · ·		

Surrogate: 1-Chlorooctadecane

21.7%

70-130



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*=Accredited Analyte

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Celey & Kune

Celey D. Keene, Lab Director/Quality Manager





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Analytical Results For:

Rice Operating Company Bruce Baker 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	08/16/2010	Sampling Date:	08/16/2010
Reported:	08/23/2010	Sampling Type:	Soil
Project Name:	BD JCT I-21	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	BD JCT I-21 (22/37)		

Sample ID: COMP OF BTTM PT 1, 2, 3, 4, & 5 (H020655-04)

BTEX 8021B	mg/	'kg	Analyze	d By: ZL					<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2010	ND	1.11	111	1.00	3.12	
Toluene*	2.75	0.050	08/17/2010	ND	0.907	90.7	1.00	6.95	
Ethylbenzene*	1.17	0.050	08/17/2010	ND	0.900	90.0	1.00	1.93	
Total Xylenes*	7,51	0.150	08/17/2010	ND	3.16	105	3.00	2.99	

Surrogate: 4-Bromofluorobenzene (PIL 113 % 80-120



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Celus D.+ Keine

Celey D. Keene, Lab Director/Quality Manager

L 40 Duly 5.0 BTEX ownosite ANALYSIS REQUEST Ш Run 10 Add'l Phone #: Add'l Fax #: E-Mail Results ~ IT JOANS @ RICLSUND . COM د (D Yes D No XZTB ר י W.5108 Hd Bbaker 1' undres. As follows including those for regularnees and any other cause whole over a whole other and of including more for regularized and any other cause whole over a whole other and any other cause whole other and any other and any other cause whole other and any after cample on other applicable and any other cause whole other applicable and any other cause and any other cause whole other applicable and applicable of a start applicable and applicable and applicable of a start applicable and applicable and applicable and applicable and applicable applicable and applicable applicable and applicable app 10 Legans. EASE NOTE: Librilly and Domages: Constrainty liskity, and clarits evolution remedy for any claim evolution whether beaued in contract of fort, shall be intruded to the encount paid by the client for the Fax Result: REMARKS: 6 8 $\sum_{i=1}^{n}$ 50 2:00 TIME 11:0 SAMPLING 101 DATE SULIO BILL TO 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 573-7001 FAX (325)573-7020 Zip: (alala) 1 Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 **PEHTO** PRESERV Company: ICE/ COOF Address: Phone #: P.O.# State: Fax #: SABIGIOA Attn: City: REHTO Cool Intact зеалтя MATRIX **710** ample State: /// Zlp: 88240 Phone # 275 + 393 - 9174 Feax # 575-397 - 1471 JIOS Received By: 22/37) *ABTAWBTSAW* RICE Operating Company ROUNDWEER **#** CONTAINERS (G)RAB OR (C)OMP - 1 DOD 9 9 9 ARDINAL LABORATORIES Project Owner: WAII COMD JUXIU RHM COMDE LI ーでー Time: Bruce Baker Sample I.D. Address: 122 W. Fax 101 わ Project Name: $B \dot{U} J \dot{c} \dot{I}$ Blendec 8 HM #1 k thm 1 KODON SHANI Bttm Sampler-UPS - Bus - Other: Delivered By: (Circle One) Rft a K C D. C. L Relinquished By: CITY: 1-10 645 Project Manager: Company Name: roject Location: Ampler Name: 1002 -S 25 1201055 FOR LAB USE ONL Lab I.D. Project #:

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Rice Operating Company Bruce Baker 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	08/16/2010	Sampling Date:	08/16/2010
Reported:	08/20/2010	Sampling Type:	Soil
Project Name:	BD JCT I-21	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	BD JCT I-21 (22/37)		

Sample ID: COMP OF N, S, E & W WALLS (H020654-01)

BTEX 8021B	mg,	/kg	Analyze	d By: ZL	<u></u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.066	0.050	08/17/2010	ND	1.11	111	1.00	3.12	
Toluene*	0.393	0.050	08/17/2010	ND	0.907	90.7	1.00	6.95	
Ethylbenzene*	0.376	0.050	08/17/2010	ND	0.900	90.0	1.00	1.93	
Total Xylenes*	1.88	0.150	08/17/2010	ND	3.16	105	3.00	2.99	

80-120

Surrogate: 4-Bromofluorobenzene (PIL 91.0 %



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Celey D. Keene, Lab Director/Quality Manager

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AL LABORATORIES set Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79503 1033-2336 FAX (5005) 393-2476 (325) 573-7001 FAX (325)573-7020	ICC OPERATING COMPANY BILL TO ANALYSIS REQUEST	ruce Baker P.O. #:	X. Tay ior Company:	State: $i^{N/4}$ Zip: $\mathcal{E}^{\mathcal{C}}\mathcal{E}^{\mathcal{A}}\mathcal{O}$ Attn:	93-9174 Fax #: 575-397- 14171 Address:	Project Owner: Clty:	D.T.C.T.T.2.1 (22/37) State: ZID:	Phone #:	C: D: C: D: Eax #:	MATRIX PRESERV SAMPLING	CS am black CONTRACER CONTRACENT CONTRACEN		114/1. (2011) CIT 1 8/1/0/2.10/ C.2011/2012/12 I.2. 2.94	1)212 Com B CI 1 1 8/16/16 12:16	DUDDU COMP CIT V SIGNO 2331 CUN NTEN CUNY			er stellen stel stellen stellen stellen stellen stellen stellen stellen stelle verlige erstellen delte Stellen stellen stellen stellen stellen stellensien.	Date: Received By: From Result of No. Add Phone #: Date: Received By: From Result: Over No. Add Phone #:	Time: REMARKS: E. Mail Reserved	Prof. DV Raceived AV. N. P. M. N. M. S. M. K. T. D. R. K. V. S. W. CO.A.	rele One) $1 - 0$ $1 $	ot accept verbal changes. Please fax written changes to 505-393-2416
ARDINAL LABOR	mpany Namo: RICE OPEN	olect Manager: Prese-c Bak	dross: 122 av. Tay 101	y: 170665	0118 #: 575-255-9174 1	oject#: F	oject Name: BD-TCT	oject Location:	mpter Name: $Acber7$	or Lee order	Lab I.D. Sample I.I	1)/2/1/ / ///2// /	2	3 E UNALC	4 water C	ana mananana manana manana manana manana manana a manana any amin'ny amin'ny amin'ny amin'ny amin'ny amin'ny am	A.S.F. HOLFE Indiate and Remands Taridade and An	reaction of the second se Second second	elinquished By:	Robert	elinquistrod By:	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	† Cardinal cannot accept verbal c

Page 4 of 4





RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

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	v
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Model: PGM 7300SeriaModel: PGM 7300SeriaModel: PGM 7300Seria

Serial No: 590-000183 Serial No: 590-000508 Serial No: 590-000504 Mo Mo Mo

Model: PGM 7600 Model: PGM 7600 Model: PGM 7600 Serial No: 110-023920 Serial No: 110-013744 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 930360	EXPIRATION DATE: $5 - 24 - 13$
FILL DATE:	METER READING ACCURACY: 100.0 ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	I-21		21	225	37E

SAMPLE ID	PID	SAMPLE ID	PID
Spt Bortom Composite	1654		
4 WALL COMPOSETTE	211.2		
BLENDEN BACKFELL	222.4		
		COPY	

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

SIGNATUE:

DATE: 8/16/10

2010 BTEX Study

Revised Junction Box Upgrade Plan (2003)

Cardinal	Laboratories
Laboratory:	
10	Egans
8/16/20	Robert E
Date:	Sampler:
BD	jct. I-21 Vent
System:	Site:

Component FILLU COMPOS (ppm) Benzene Toluene	(ppm) Benzene Toluene	Benzene Toluene			IE (mg/kg Ethvi Benzene)) Total Xvlenes
		Delizerie				i ulai Ayieries
2						
3 1654 <0.100	1654 <0.100	<0.100		3.34	1.35	8.25
4						
5						
				AB COMPOSIT	E (mg/kg)	
			ł			
<0.050	<0.050	<0.050		2.75	1.17	7.51
	-					

laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under Revised Junction Box Upgrade Work Plan (July 16, 2003) collected in a skewed 'W' pattern.

2010 BTEX Study

Revised Junction Box Upgrade Plan (2003)

•

System:	BD	Date:	8/16/2010	Laboratory:	Cardinal
Site:	Jct. I-21 Vent	Sampler:	Robert Egans		Laboratories

	_	_						
(f	Total Xylenes		20 0	CO.7			1.88	
TE (mg/kç	Ethyl Benzene		0.460	0.400		-E (mg/kg)	0.376	
IELD COMPOSI	Toluene		N 77 0	0.74		LAB COMPOSIT	0.393	
	Benzene			000.04			0.066	
PID reading	(ppm)		C 7 7 C	2.11.2				
Component	COLIDOLEIL	Ļ	2	3	4			
	FUCATION		4-Wall	Composite				

laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern. Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under

RICE Operating Company

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BD Jct. I-21 Vent unit T, Sec. 21, T22S, R37E

Backhoe samples at 5 ft. east of junction (source)

[Cl ⁻] ppm	55	09	145	203	235	238
Depth bgs (ft)	2	4	6	8	10	12



