

1R - 426-282

**REPORTS**

**DATE:**

**3-22-11**

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1R426-282

**BD Jct. I-21 Vent**

**2010**

RECEIVED  
APR -1 2011  
San Francisco Division  
220 S. St. Francis Drive  
San Francisco, CA 94105

**DISCLOSURE**

**RICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE\* REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Blinebry-Drinkard (BD)	Jct. I-21 Vent	I	21	22S	37E	Lea	eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Millard Deck OTHER \_\_\_\_\_

Depth to Groundwater 66 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 4/15/2009 Date Completed 9/8/2010 OCD Witness no

Soil Excavated 44.4 cubic yards Excavation Length 10 Width 10 Depth 12 feet

Soil Disposed 24 cubic yards Offsite Facility Sundance Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 8/16/2010 Sample Depth 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 Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides 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 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

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	251
bottom comp.	12	335
backfill comp.	n/a	175
background	6"	181
vertical delineation at 5 ft. east of junction (source)	2'	55
	4'	60
	6'	145
	8'	203
	10'	235
	12'	238

**ADDITIONAL EVALUATION IS MEDIUM PRIORITY**

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

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SITE SUPERVISOR Robert Egans SIGNATURE *Robert Egans* COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *Larry Bruce Baker Jr.* DATE 3-22-11

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

# BD Jct. I-21 Vent

Unit I, Section 21, T22S, R37E



Site prior to excavation

4/15/2010



Delineation trench being excavated

8/10/2010



Collecting Sample

8/10/2010



Seeding excavation

9/08/2010

**Analytical Results For:**

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

Received: 08/16/2010  
Reported: 08/23/2010  
Project Name: BD JCT I-21  
Project Number: NOT GIVEN  
Project Location: BD JCT I-21 (22/37)

Sampling Date: 08/16/2010  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed 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		
<b>Toluene*</b>	<b>3.34</b>	0.100	08/23/2010	ND	0.907	90.7	1.00	6.95		
<b>Ethylbenzene*</b>	<b>1.35</b>	0.100	08/23/2010	ND	0.900	90.0	1.00	1.93		
<b>Total Xylenes*</b>	<b>8.25</b>	0.300	08/23/2010	ND	3.16	105	3.00	2.99		

Surrogate: 4-Bromofluorobenzene (PIL) 99.7 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>368</b>	16.0	08/18/2010	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>858</b>	50.0	08/17/2010	ND	169	84.7	200	1.68			
<b>DRO &gt;C10-C28</b>	<b>4010</b>	50.0	08/17/2010	ND	165	82.3	200	2.36			

Surrogate: 1-Chlorooctane 21.9 % 70-130

Surrogate: 1-Chlorooctadecane 21.7 % 70-130

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 08/16/2010  
Reported: 08/23/2010  
Project Name: BD JCT I-21  
Project Number: NOT GIVEN  
Project Location: BD JCT I-21 (22/37)

Sampling Date: 08/16/2010  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

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

BTEX 8021B		mg/kg		Analyzed By: ZL					
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	
<b>Toluene*</b>	<b>0.774</b>	0.050	08/17/2010	ND	0.907	90.7	1.00	6.95	
<b>Ethylbenzene*</b>	<b>0.468</b>	0.050	08/17/2010	ND	0.900	90.0	1.00	1.93	
<b>Total Xylenes*</b>	<b>2.85</b>	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						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>192</b>	16.0	08/18/2010	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: AB						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>293</b>	50.0	08/17/2010	ND	169	84.7	200	1.68		
<b>DRO &gt;C10-C28</b>	<b>3610</b>	50.0	08/17/2010	ND	165	82.3	200	2.36		

Surrogate: 1-Chlorooctane 21.0 % 70-130

Surrogate: 1-Chlorooctadecane 21.0 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 08/16/2010  
 Reported: 08/23/2010  
 Project Name: BD JCT I-21  
 Project Number: NOT GIVEN  
 Project Location: BD JCT I-21 (22/37)

Sampling Date: 08/16/2010  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BLENDED BACKFILL (H020655-03)**

BTEX 8021B		mg/kg		Analyzed 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		
<b>Toluene*</b>	<b>1.27</b>	0.100	08/23/2010	ND	0.907	90.7	1.00	6.95		
<b>Ethylbenzene*</b>	<b>0.579</b>	0.100	08/23/2010	ND	0.900	90.0	1.00	1.93		
<b>Total Xylenes*</b>	<b>3.81</b>	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		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>96.0</b>	16.0	08/18/2010	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: AB							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>151</b>	50.0	08/17/2010	ND	169	84.7	200	1.68			
<b>DRO &gt;C10-C28</b>	<b>1350</b>	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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Celey D. Keene, Lab Director/Quality Manager

**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)**

Analyte	mg/kg		Analyzed By: ZL						
	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	
<b>Toluene*</b>	<b>2.75</b>	0.050	08/17/2010	ND	0.907	90.7	1.00	6.95	
<b>Ethylbenzene*</b>	<b>1.17</b>	0.050	08/17/2010	ND	0.900	90.0	1.00	1.93	
<b>Total Xylenes*</b>	<b>7.51</b>	0.150	08/17/2010	ND	3.16	105	3.00	2.99	

Surrogate: 4-Bromofluorobenzene (PII) 113 % 80-120

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Celey D. Keene, Lab Director/Quality Manager

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603  
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

**Company Name:** Rice Operating Company  
**Project Manager:** Bruce Baker  
**Address:** 122 W. Taylor  
**City:** Hobbs  
**State:** NM **Zip:** 88240  
**Phone #:** 575-393-9174 **Fax #:** 575-397-1471  
**Project #:** **Project Owner:**  
**Project Name:** BD Jet F-21 (22/37)  
**Project Location:**  
**Sampler Name:** Robert

Lab I.D.	Sample I.D.	PRESERV		MATRIX		SAMPLING		DATE	TIME	OTHER
		ICE/COOL	ACID/BASE	GROUNDWATER	WASTEWATER	SOIL	SLUDGE			
H20551	5pt Btm Composite	✓	✓	✓	✓	✓	✓	8/16/10	11:16	✓
2	4 Wail Comp Oxid	✓	✓	✓	✓	✓	✓	8/16/10	12:34	✓
3	Blended Backfill	✓	✓	✓	✓	✓	✓	8/16/10	2:04	✓
4	Btm Pt. 1	✓	✓	✓	✓	✓	✓	8/16/10	11:00	✓
5	Btm Pt. 2	✓	✓	✓	✓	✓	✓	8/16/10	11:05	✓
6	Btm Pt. 3	✓	✓	✓	✓	✓	✓	8/16/10	11:07	✓
7	Btm Pt. 4	✓	✓	✓	✓	✓	✓	8/16/10	11:01	✓
8	Btm Pt. 5	✓	✓	✓	✓	✓	✓	8/16/10	11:13	✓

WS108 HPL  
 -10  
 BTEX  
 COPY

Composite in Lab  
 Run BTEX Only

**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 the client for the analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no 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, 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 causes or otherwise.

**Relinquished By:** Robert  
**Relinquished By:** [Signature]  
**Delivered By: (Circle One)** Sampler - UPS - Bus - Other:  
**Received By:** [Signature]  
**Date:** 8/16/10  
**Time:** 4:21  
**Sample Condition:** Cool  Intact   
**Checked By:** [Signature]  
**REMARKS:** E-Mail Results To: K.Tomas@riceand.com  
 Baker  
 Aegang

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

#26

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

Surrogate: 4-Bromofluorobenzene (PIE) 91.0 % 80-120

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# RICE OPERATING COMPANY

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

Check Model Number:

✓

Model: PGM 7300    Serial No: 590-000183  
 Model: PGM 7300    Serial No: 590-000508  
 Model: PGM 7300    Serial No: 590-000504


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

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: <u>930360</u>	EXPIRATION DATE: <u>5-24-13</u>
FILL DATE: <u> </u>	METER READING ACCURACY: <u>100.0 ppm</u>

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
<u>BD</u>	<u>I-21</u>	<u>I</u>	<u>21</u>	<u>225</u>	<u>37E</u>

SAMPLE ID	PID	SAMPLE ID	PID
<u>5 FT Bottom Composite</u>	<u>1654</u>		
<u>4 WALL Composite</u>	<u>211.2</u>		
<u>BLENDED BACKFILL</u>	<u>222.4</u>		

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

SIGNATURE: 

DATE: 8/16/10

# 2010 BTEX Study

# Revised Junction Box Upgrade Plan (2003)

System: BD  
 Site: jct. I-21 Vent

Date: 8/16/2010  
 Sampler: Robert Egans

Laboratory: Cardinal Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)			
			Benzene	Toluene	Ethyl Benzene	Total Xylenes
bottom composite at 12 ft BGS	1	1654	<0.100	3.34	1.35	8.25
	2					
	3					
	4					
	5					
			LAB COMPOSITE (mg/kg)			
			<0.050	2.75	1.17	7.51

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 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.  
 Revised Junction Box Upgrade Work Plan (July 16, 2003)

# 2010 BTEX Study

# Revised Junction Box Upgrade Plan (2003)

System: BD  
 Site: Jct. I-21 Vent

Date: 8/16/2010  
 Sampler: Robert Egans

Laboratory: Cardinal Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)		
			Benzene	Toluene	Ethyl Benzene Total Xylenes
4-Wall Composite	1	211.2	<0.050	0.774	0.468
	2				
	3				
	4				
			LAB COMPOSITE (mg/kg)		
			0.066	0.393	0.376
			1.88		

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 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.  
 Revised Junction Box Upgrade Work Plan (July 16, 2003)

# CHLORIDE CONCENTRATION CURVE

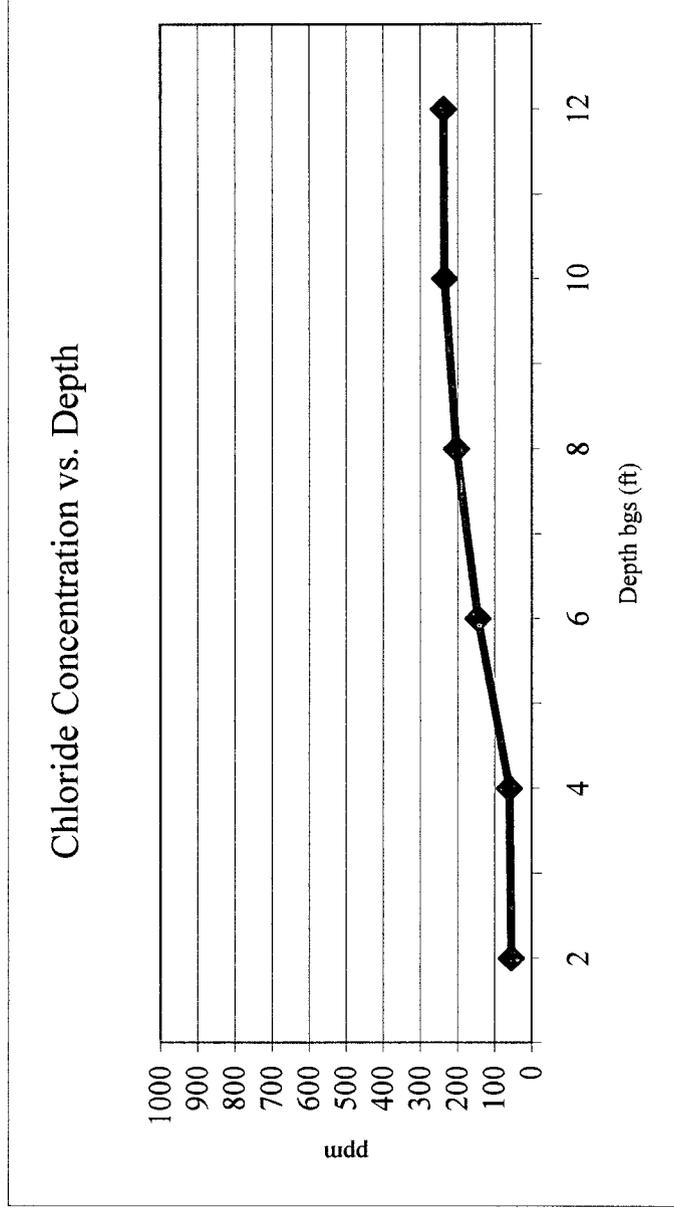
RICE Operating Company

## BD Jct. I-21 Vent

unit T, Sec. 21, T22S, R37E

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

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
2	55
4	60
6	145
8	203
10	235
12	238



Groundwater = 66 ft.