

1R - 427-230

**REPORTS**

**DATE:**

4-1-08

EME Jct B-7 (2 Boxes)

1R427-230

**CLOSURE**

4-1-08

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	NEW BOX DIMENSIONS - FEET		
							Length	Width	Depth
Eunice-Monument-Eumont (EME)	jct. B-7 (2 boxes)	B	7	19S	37E	Lea	no box; junction eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER James H. Foley OTHER \_\_\_\_\_

Depth to Groundwater 47 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 8/2/2007 Date Completed 9/18/2007 NMOCD Witness no

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

**FINAL ANALYTICAL RESULTS:** Sample Date 9/12/2007 Sample Depth 12 ft

5-point composite sample of bottom and 4-point composite sample of excavation sidewalls. TPH, BTEX, and chloride laboratory test results completed by using an approved laboratory 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.	PID = 1.9 (field reading)				<10.0	<10.0	96
BOTTOM COMP.	<0.002	<0.002	<0.002	<0.006	<10.0	<10.0	80
BACKFILL	PID = 76.4 (field reading)				<10.0	10.2	80

**CHLORIDE FIELD TESTS**

**General Description of Remedial Action:**

This site contained 2 junction boxes that were eliminated as part of the ongoing pipeline replacement/upgrade program. Once the box lumber was removed, a backhoe was used to collect soil samples at regular intervals producing a 30 x 30 x 12-ft-deep excavation. Chloride field tests were conducted on each sample and yielded low chloride concentrations throughout. Organic vapors were also measured using a PID instrument. Representative composite samples from the excavation floor, walls, and excavated soil were collected for laboratory confirmation. NMOCD TPH guideline concentrations were met for BTEX and TPH. The excavated soils were blended on site and returned to the excavation and contoured to the surrounding terrain. On 9/19/2007 the disturbed area was seeded with a blend of native vegetation and is expected to return to productive capacity at a normal rate.

LOCATION	DEPTH (ft)	ppm
vertical delineation trench at former junction	5	965
	6	756
	7	436
	8	365
	9	336
	10	259
	11	245
	12	299
4-wall comp.	n/a	161
bottom comp.	12	240
backfill comp.	n/a	288

enclosures: photos, lab results, PID field screenings, chloride graph, BTEX comparison

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

SITE SUPERVISOR L. Bruce Baker SIGNATURE Bruce Baker COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope  
DATE 3/3/2008 TITLE Project Scientist



PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

RECEIVED

ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: ROY R. RASCON  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (505) 397-1471

SEP 19 2007

RICE OPERATING  
HOBBS NM

Receiving Date: 09/13/07  
Reporting Date: 09/14/07  
Project Number: NOT GIVEN  
Project Name: EME JCT. B-7  
Project Location: EME JCT. B-7

Sampling Date: 09/12/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: CK  
Analyzed By: BC/HM

COPY

LAB NUMBER	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	CI* (mg/Kg)
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ANALYSIS DATE		09/13/07	09/13/07	09/13/07
H13288-1	4 WALL COMP.	<10.0	<10.0	96
H13288-2	BACKFILL	<10.0	10.2	80
H13288-3	5 PT. FIELD BOTTOM COMP.	<10.0	<10.0	80
Quality Control		570	611	500
True Value QC		600	600	500
% Recovery		95.0	102	100
Relative Percent Difference		2.4	1.1	<0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

\*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

9/14/07  
Date

H13288A 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. 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 reasons or otherwise.



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

RECEIVED  
RECEIVED

SEP 19 2007

SEP 18 2007

RICE OPERATING  
RICE OPERATING  
HOBBS NM

ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: ROY R. RASCON  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (505) 397-1471

Receiving Date: 09/13/07  
Reporting Date: 09/14/07  
Project Number: NOT GIVEN  
Project Name: EME JCT. B-7  
Project Location: EME JCT. B-7

Sampling Date: 09/12/07  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: CK  
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
	ANALYSIS DATE	09/13/07	09/13/07	09/13/07	09/13/07
H13288-3	5 PT. FIELD BOTTOM COMP.	<0.002	<0.002	<0.002	<0.006
H13288-4	BOTTOM LAB COMP. @ 12'	<0.002	<0.002	<0.002	0.017
	Quality Control	0.103	0.098	0.100	0.277
	True Value QC	0.100	0.100	0.100	0.300
	% Recovery	103	98.3	100	92.2
	Relative Percent Difference	5.0	1.7	4.9	2.7

METHOD: EPA SW-846 8260

*Burgess R. Coche*  
Chemist

9/14/07  
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, 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. 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 reasons or otherwise.



CARDINAL LABORATORIES, INC.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: **EME OIL FIELD SERVICES CO.** P.O. #: **FIELD 70** ANALYSIS REQUEST

Project Manager: **Tom Patterson** Company: \_\_\_\_\_

Address: **100 W. TAYLOR** Altitude: \_\_\_\_\_

City: **Hobbs** State: **NM** ZIP: **88240**

Phone #: **505-393-1774** Fax #: **505-393-1471** Address: \_\_\_\_\_

Project #: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Project Name: **EME Set B-7** Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_

Project Location: **EME Set B-7** State: \_\_\_\_\_ Zip: \_\_\_\_\_

Sampler Name: **Bruce Baker** Matrix: \_\_\_\_\_

Lab I.D. Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.			DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:				
H13288-1	4 Well Comp.	C	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9-12-07	11:30 AM	✓	CI- TPH 8015 M BETEX
	Back-Fill	C	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9-12-07	3:25 PM	✓	
	5pk Field Bottom Comp.	C	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9-12-07	9:35 AM	✓	
	Bottom 1	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9-12-07	9:00 AM	✓	
	Bottom 2	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9-12-07	9:07 AM	✓	
	Bottom 3	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9-12-07	9:15 AM	✓	
	Bottom 4	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9-12-07	9:22 AM	✓	
	Bottom 5	G	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	9-12-07	9:30 AM	✓	

REMARKS: **Comp. in Lab**  
**and Test BETEX**  
**Daily Report**  
**as in bottom Lab**  
**comp @ 12'**

DELIVERED BY: (Circle One)  UPS - Bus - Other: \_\_\_\_\_

Delivered By: (Lab Staff) **Wesley Hume** Checked By: \_\_\_\_\_

Temp. °C  Yes  No

Temp. °F  Yes  No

Phone Result:  Yes  No

Fax Result:  Yes  No

REMARKS: **E-mail results to baker @ nice sud.com**  
**B B to jennovs @ nice sud.com**

DATE: **9-13-07** TIME: **9:10**

DATE: **9-13-07** TIME: **9:10**

DATE: **9-13-07** TIME: **9:10**

Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

# EME jct. B-7 (2 boxes)

Unit B, Section 7, T19S, R37E



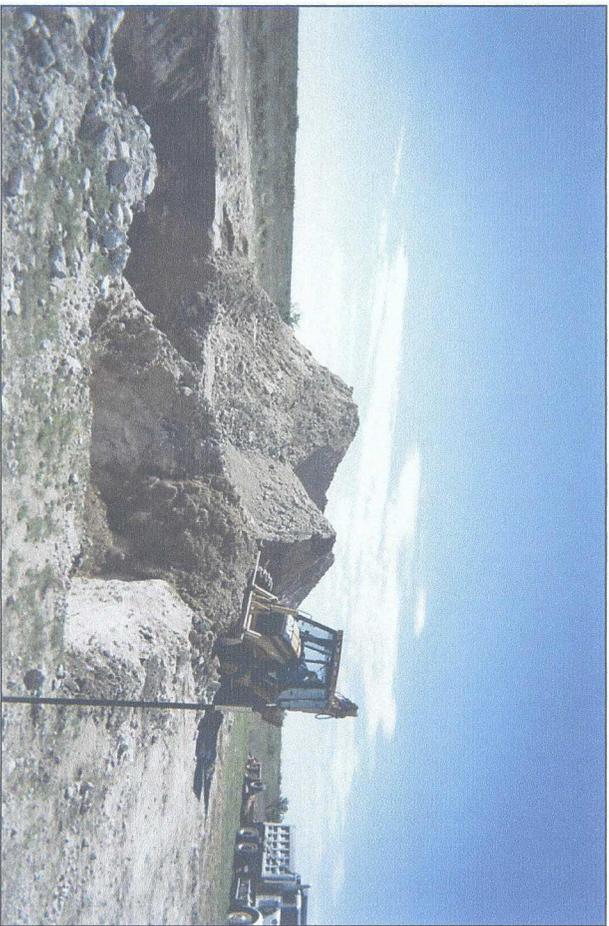
undisturbed junction boxes

2/14/2006



collecting soil samples from excavation

Sept. 2007



backfilling excavation

Sept. 2007



seeding disturbed area

9/19/2007

# RICE OPERATING COMPANY

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

COPY

CK.	<input checked="" type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-023920
MODEL	<input type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-013744
NO.	<input type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-12383
	<input type="checkbox"/>	MODEL: PGM 7600	SERIAL NO: 110-012920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3264	EXPIRATION DATE: 1/18/09
FILL DATE: 7/18/07	METER READING ACCURACY: 101 ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	B-7	B	7	195	37E

SAMPLE ID	PID	SAMPLE ID	PID
5pt Bottom Comp.	1444	BACKfill	76.4
Bottom # 1	13.4		
Bottom # 2	30.2		
Bottom # 3	1442		
Bottom # 4	19.0		
Bottom # 5	27.2		
4 WALL Comp	1.9		

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

SIGNATURE:

Bruce Baker

DATE:

9-12-07

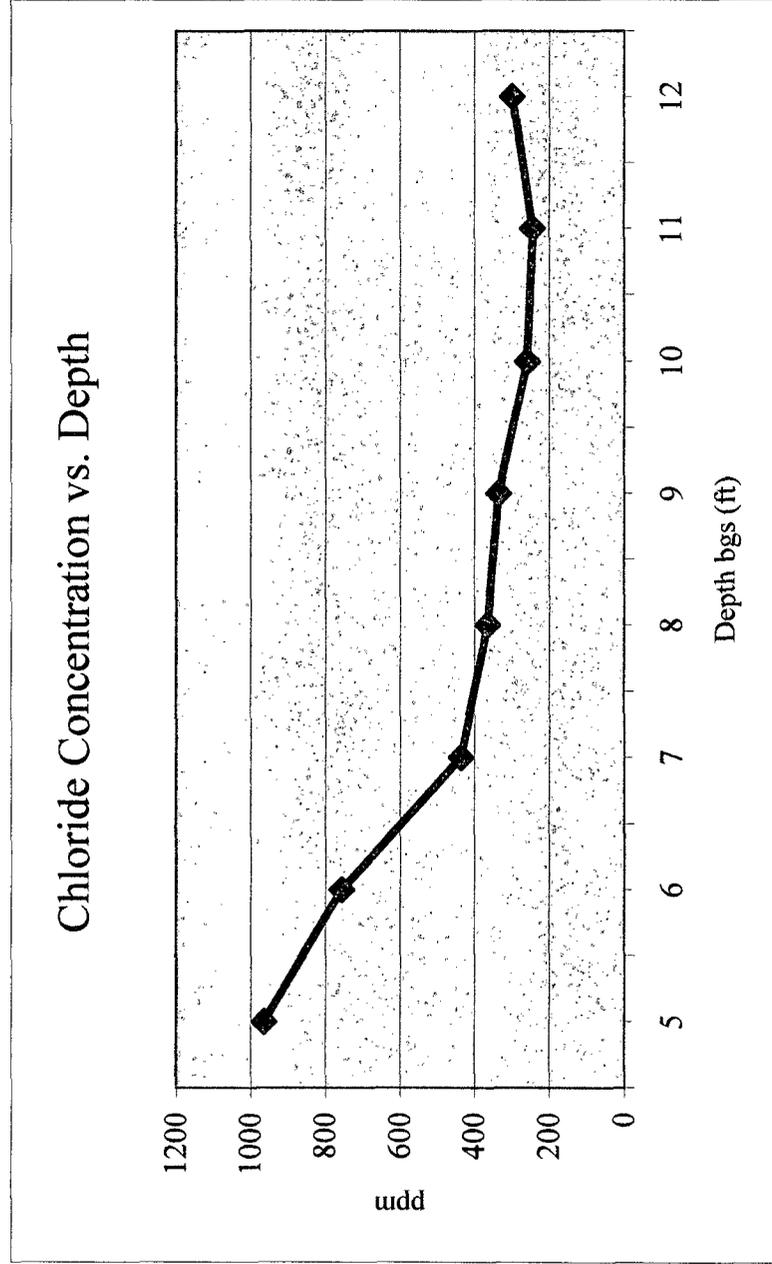
# EME jct. B-7

unit 'B', Sec. 7, T19S, R37E

Backhoe samples at junction (source)

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
5	965
6	756
7	436
8	365
9	336
10	259
11	245
12	299

Groundwater = 47 ft



**2007 BTEX Study**

**Revised Junction Box Upgrade Plan (2003)**

System: EME Date: 9/12/2007 Laboratory: Cardinal  
 Site: jct. B-7 Sampler: L. Bruce Baker Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)			
			Benzene	Toluene	Ethyl Benzene	Total Xylenes
bottom composite at 12 ft BGS	5 sample points	1444	<0.002	<0.002	<0.002	<0.006
			LAB COMPOSITE (mg/kg)			
<i>excavation dimensions</i> 30 x 30 x 12 ft			<0.002	<0.002	<0.002	0.017

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)