1R - 4 

### REPORTS

DATE.



### - IE Jct A-19-2

\* †



RECEIVED

MAR 2.5 2009 Environmental Bureau Oil Conservation Division

### CLOSURE

### RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

				BOX LOCA	TION					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DI	MENSIONS	- FEET	
Eunice Monument	Jct A-19-2	А	19	215	36F	lea	Length	Width	Dep	oth
Eumont (EME)	000.77 10 2			210		200		eliminated		
LAND TYPE: E	3LM	STATE X	FEE LA	NDOWNER			OTHER_			
Depth to Grour	ndwater	106	feet	NMOCD	SITE ASS	ESSMENT F	RANKING SO	CORE:	10	
Date Started	10/17	/2008	Date Cor	npleted	11/7/2008		Vitness	n	0	
Soil Excavated	222.2	cubic yar	ds Exc	avation Le	ngth <u>20</u>	Width _	25	Depth	12	feet
Soil Disposed	0	cubic yar	ds Off	site Facility	n	/a	Location_		n/a	

FINAL ANALYTICAL RESULTS:

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Sample Date 10/29/2008, 11/4/2008 Sample

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	Benzene ma/ka	Toluene ma/ka	Ethyl Benzene ma/ka	Total Xyienes ma/ka	GRO ma/ka	DRO ma/ka	Chloride ma/ka
	<0.050	<0.050	0.139	0.396	26.3	611	<16
4-WALL COMI .	-0.000		0.100	0.000	20.5		-10
BOTTOM COMP.	<0.050	0.073	0.138	0.384	21.1	465	<16
BACKFILL COMP.		PID = 7	1.8 (field)		24.2	863	<16

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 20x25x12-ft-excavation. Chloride field tests performed on each sample
yielded low concentrations similar to that of the background sample. Organic vapors
measured using a PID yielded some elevated concentrations. Representative composite
samples were sent to a commercial laboratory for analysis of chloride, TPH, and BTEX
which yielded low concentrations. The excavated soil was blended on-site and returned
to the excavation to ground surface and contoured to the surrounding area. On 11/10/2008,
the site was seeded with a blend of native vegetation and is expected to return to a
productive capacity at a normal rate.

### LOCATION DEPTH mg/kg 147 4-wall comp. n/a 12' 123 bottom comp. 180 blended backfill n/a background 6" 208 4' 140 5' 205 6' 118 vertical delineation 7' 148 trench at 5 ft 8' 145 west of the 9' 149 junction (source) 10' 118 11' 145 12' 89

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

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

SITE SUPERVISOR _	Eric Garrison	_SIGNATURE_	ered	Bannon	COMPANY	RICE OPERATING COMPANY
REPORT ASSEMBLED BY	Katie Jones		KJ			
PROJECT LEADER	Larry Bruce Baker Jr.	_SIGNATURE_	Larry	Bruce Baher fr.	DATE	1-20-09

### CHLORIDE FIELD TESTS

squaring up the excavation

EME Jct. A-19-2

tormer junction box site

9/31/2008

Unit A, Section 19, T21S, R36E



collecting a soil sample

10/28/2008



10/28/2008

11/10/2008



NOV DE 2008 LOBUS, MA 

CI\*

(mg/kg)

Receiving Date: 10/30/08 Reporting Date: 10/31/08 Project Number: NOT GIVEN Project Name: EME A-19-2 Project Location: EME A-19-2



GRO

 $(C_6 - C_{10})$ 

(mg/kg)

Sampling Date: 10/29/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

DRO

 $(>C_{10}-C_{28})$ 

(mg/kg)

LAB NUMBER SAMPLE ID

ANALYSIS DATE	10/30/08	10/30/08	10/30/08
H16217-1 4 WALL COMP @ 20' X 25'	26.3	611	<16
			1
· · ·			
Quality Control	566	523	500
True Value QC	500	500	500
% Recovery	113	105	100
Relative Percent Difference	3.4	8.1	1.0

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

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### H16217 TCL RICE

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NOV CE 2008

he can be reached and HOBBS, NM

Receiving Date: 10/30/08 Reporting Date: 10/31/08 Project Number: NOT GIVEN Project Name: EME A-19-2 Project Location: EME A-19-2



Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBE SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	10/31/08	10/31/08	10/31/08	10/31/08
H16217-1 4 WALL COMP @ 20' X 25'	<0.050	<0.050	0.139	0.396
H16217-2-5 4 WALL COMP. N, E, S, W	<0.050	<0.050	0.132	0.395
WALLS				
		1		
Quality Control	0.047	0.049	0.050	0.159
True Value QC	0.050	0.050	0.050	0.150
% Recovery	94.0	98.0	100	106
Relative Percent Difference	1.5	1.3	0.4	0.5

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES.

Directo

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ARDINAL LABORATORIES   101 East Mariand, Hobbs, NM 88240	me: (3) 333-2220 ( ax (3/3) 333-2470 ) BILLTO ANALVSIS REALIEST	Jui 2/ 1 C OH/ / 5071	22WTester	bs State: MM Zip: 88240 Attn:	3-9/74 Fax #: (573)397-147/ Address:	Project Owner:	s: Emply H-19-2 State: Zip:	tion: 5, m 5 A - 19 - 2		MATRIX PRESERV SAMPLING	s s s s s s s s s s s s s s s s s s s		4 Wallcomp & astas C1 1 1 1 10.29.2 X × ×	2 Nwalt 6 1 1 10-28-08 15:00	3 & would 6 1 11 1 10 10 28.00 15:05 Composite in Lab	7 5 Wall 61 1 1 11 10-23-01 15:10 > 672x 01/4	5 WWXLL 6 1 1 1 10-38-08 15:15		carbon constraints in statuts and cleard's and cleard's and commands which and	an Garanas to heck of consequental damages, including without Innitian, business interruptions, loss of usa, of loss of usa, of loss of wells including enternations, including enternatives frees	inguished: Date: Date: Date: Acceived By Phone Result: D No Iddi Phone #: /0-30-00 No -30-00 No Addi Fax #:	Le auer Time: 8:10 Moth Multi REMARKS:	TI BY: Date: Received By: ()	By: (Circle One) Temp. Sample Condition CHECKED BY:	
ARDINAL 101 East	Company Name: No.	LIGALINALIAJAL S/10	Address: 122WTa	City: 10665	Phone #: 393-9174	Project#:	Project Name: Ewil'	Project Location: 5 m 5	Sampler Name: Kori	1. 52E ONLY		Lab I.D. S	 H110217-1 4 Wed	-2 1100	-3 5 00	-4 5 W	-5 W W W			ייטישי ווו וווישי בייד אישר מישר אישר אישר אישר אישר אישר אישר אישר א	rempter Relinquished:	in the tran	tennquis <del>hed</del> by:	Delivered Bv: (Circle C	Ę

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

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Hanna and



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

ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: ERIC GARRISON 122 W. TAYLOR HOBBS, NM 88240 NOV 05 7008

. . .

Receiving Date: 10/30/08 Reporting Date: 10/31/08 Project Number: NOT GIVEN Project Name: EME A-19-2 Project Location: EME A-19-2 Sampling Date: 10/29/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: AB

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	10/30/08	10/30/08	10/30/08
H16218-1 5 PT BTTM COMP @ 12'	21.1	465	<16
	<u> </u>		
			500
Quality Control	566	523	500
True Value QC	500	500	500
% Recovery	113	105	100
Relative Percent Difference	3.4	8.1	1.0

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

Lab Director

Date

### H16218 TCL RICE

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Receiving Date: 10/30/08 Reporting Date: 10/31/08 Project Number: NOT GIVEN Project Name: EME A-19-2 Project Location: EME A-19-2



Sampling Date: 10/29/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: ZL

			ETHYL	TOTAL
	BENZENE	TOLUENE	BENZENE	XYLENES
LAB NUMBE SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
		_		
ANALYSIS DATE	10/31/08	10/31/08	10/31/08	10/31/08
H16218-1 5 PT BTTM COMP @ 12'	<0.050	0.073	0.138	0.384
H16218-2-6 5 PT BTTM COMP #1, #2, #3, #4, #5	<0.050	0.084	0.175	0.478
Quality Control	0.047	0.049	0.050	0.159
True Value QC	0.050	0.050	0.050	0.150
% Recovery	94.0	98.0	100	106
Relative Percent Difference	1:5	1.3	0.4	0.5

METHOD: EPA SW-846 8021B

TEXAS NELAP CERTIFICATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. ,

Lab Director

11/31

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101 East Ma (505) 393-/	rland, Hobbs, NM 8824 2326 FAX (505) 393-247	0 2111 Beechwood 6 (325) 673-7001 F	J, Abilene, TX 75 ⁼AX (325)673-702	3603 20	
Company Name: XILL 6	Percetture		BILL	TO ANY	TASIS REQUEST
Project Manager: EX, Z	CALCING		P.O. #:		
Address: 122 WTG	2005		Company:		
city: Hebbs	State: MITZ	cip: 8, 82 XO	Attn:		
Phone #: 393-9174	Fax #:(5,75)	587-1471	Address:		
Project #:	Project Owner:		city:	1	
Project Name: Ewl & K	2-19-2		State: Zip		
Project Location: EME	A-19-2		Phone #:		
Sampler Name: English C &	Arlian		Fax #:		]
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING	
Lab I.D. Sar	nple I.D.	9 00 (0) 00 84 2010 2010 2010 2010 2010 2010 2010 2010	EB : COOL BASE: ER :	X 21 E	
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- 6 5 P 4	TM#5		23	A-08.14.50.	
LEASE NOTE: Liebury and Demages. Cardinal's LEASE NOTE: Liebury and Demages. Cardinal's structures. All claims: Including fluose for necl struct. In no event shell Cardinal be Hoble for hicl illusis or successors anishing out of or releaded to All	iability and clients exclusive remedy for any rand any other cause whatsoever shall be dee ental or concerprendia damages, including with the performance of services hareunder by Card	taim antsing whether based in contra taim antsing whether based in contra med walved unless made in vriting at thour limitation. business Interruptions fail, regardless of whether such dolin	t or tort. shall be limited to the nd received by Cardinal within 3 . Joss of use, or loss of profits if is based uppon any of the elow	emourt paid by the client for the Browut paid by the client for the O days after completion of the applicable curred by the the substituations estated reasons or chervalse.	
Relinquished By:	Date: 20.08	Received By	00	Phone Result: 7 Yes 7 No Add	Phone #:
K B By:	Time; 70 Date: 1	Received By:	- Lally	REMARKS:	l faX #:
	Time:				
Delivered By: (Circle One Sampler- UPS - Bus - Othe		Sample Condi Cool Intact	tion CHECKED (Initials)	BY:	

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

### RICE OPERATING COMPANY

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



MODEL: PGM 7300 MODEL: PGM 7600 MODEL: PGM 7600 MODEL: PGM 7600 SERIAL NO: 590-000183 SERIAL NO: 110-013744 SERIAL NO: 110-12383 SERIAL NO: 110-023920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: 5-16-09
FILL DATE: //-/6-01	METER READING ACCURACY: 100 PM

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	H-19-2	A	19	215	365
4Wall	Comp	*	SPTBI	Tm.	
SA	MPLE ID	PID	SA	MPLE ID	PID
4 Wall	comP	214	5 PT BTT	. 117	
Awa	LL comp	25		#F 1	9,0
SWE	il comp	7.0		#2	0.0
E was	L COMP	7.47		#3	191
Www.	LL COMP	97.8	s.	FF4	0.0
				FF 5	61.4
					1

I verify that I have calibrated the above insrument in accordance to the namufacture operation manual.

SIGNATUE:

Enperner

DATE: 10-2508

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Receiving Date: 11/04/08 Reporting Date: 11/06/08 Project Number: NOT GIVEN Project Name: EME A-19-2 Project Location: EME A-19-2



Sampling Date: 11/04/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AB Analyzed By: AB/HM

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)
ANALYSIS DATE	11/06/08	11/06/08	11/05/08
H16267-1 BLENDED BACKFILL	24.2	863	< 16
	-		
Quality Control	590	505	490
True Value QC	500	500	500
% Recovery	118	101	98.0
Relative Percent Difference	8.8	3.1	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B \*Analysis performed on a 1:4 w:v aqueous extract.

Lab Director

1/01/15

Date

### H16267 TCL RICE

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Page of ANALYSIS REQUEST					Terrins and Conditions: Interest will be charged on all accounts more than 	No Add'I Fax #: No Add'I Fax #:	
ARDINAL LABORATORIES     101 East Marland, Hobbs, NM 88240     (575) 393-2326 Fax (575) 393-2476     ms:   Kill 0191 Killing	Der Elic 64 fr 800 Na W Teblor DS State: NM Zip: 88240 Attn: 98-9174 Fax#: 525-392-1971 Attn:	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	LI DL & CONTAINERS CROUNDWATER		in and Damages. Catorells labelity and clenit's ancluaive terred, for any clear anising whether thasard in contract of rort. shall be limited to the amount brief clear for the cleaner wester for nagreene and any unacted any wheter hasard in contract of rort. shall be limited to the amount brief clear for the in Catores be lacted for recagnited or consequential damages including whether thasard in contract of rort. shall be limited to the amount brief of the in Catores be lacted for recagnited or consequential damages including whether hasard in contract of the and the limited to the applicable in Catores be lacted for recagnited or consequential damages including and received by Catored Within 30 days after completion of the applicable shall store. Catored with a contractioner of serveral received without events repaired to the other to the above stated under the store stated with a contractioner of serveral received or catored regardless of whether each relating back and reasons of other wise. The first second second received for the applicable to first second received to the catorest of serveral received regardless of whether each relating back upon any of the above stated reasons of optimerulations.	Time: Date: Received By: Time: Date: Received By: Time: Date: Time: Time	Bv:   Circle One)   Temp. Sample Condition   CHECKED BY:     75   - Bus   Other:   Cool Intact   (Inigals)     75   - Bus   Other:   No   No     75   - Bus   - Other:   Cool Intact   (Inigals)     75   - Bus   - Other:   No   No     78   - No   No   No   No     78   - Cannot accept verbal changes. Please fax written changes to 575-393-2446.   Anot accept verbal changes. Please fax written changes to 575-393-2446.

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### RICE OPERATING COMPANY

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



MODEL: PGM 7300 MODEL: PGM 7600 MODEL: PGM 7600 MODEL: PGM 7600 SERIAL NO: 590-00183 SERIAL NO: 110-013744 SERIAL NO: 110-12383 SERIAL NO: 110-023920



GAS COMPOSITION: ISOBUTYLENE (00PPM / AJR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: 5-16	-09
FILL DATE: 11-16-07	METER READING ACCURACY:	1000Pm

ACCURACY: +/-2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	A-19-2	A	19	213	368
Blended	BacKFILL				
BLO AD	MPLE ID	PID 71.7	SA	MPLE ID	PID
IJLE MUPI	U LALCHTAL CON	- 11:3			
		-			
	······				
· · · · · · · · · · · · · · · · · · ·					
4. <sup>101</sup>					

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

SIGNATUL MAN HOURON

DATE 11-1-08

**2008 BTEX Study** 

# Revised Junction Box Upgrade Plan (2003)

Cardinal Laboratories

Laboratory:	
10/29/2008	Eric Garrison
Date:	Sampler:
EME	Jct. A-19-2
System:	Site:

	<b>Fotal Xylenes</b>				0.384	0.384	0.384	0.384	0.384	0.384	0.384
IE (mg/kg)	Ethyl Benzene 7				0.138	0.138	0.138	0.138 E (mg/kg)	0.138 E (mg/kg)	0.138 E (mg/kg)	0.138 E (mg/kg) 0.175
IELD COMPOSI	Toluene				0.073	0.073	0.073	0.073 LAB COMPOSIT	0.073 LAB COMPOSIT	0.073 LAB COMPOSIT	0.073 LAB COMPOSIT 0.084
<b>-</b>	Benzene				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
PID reading	(mdd)	0.0	0.0		191.0	191.0 0.0	191.0 0.0 61.4	191.0 0.0 61.4	191.0 0.0 61.4	191.0 0.0 61.4	191.0 0.0 61.4
Component		-	2		ო	6 4 3	3	Q 4 Q	დ <b>4</b> თ	ი 4 თ	ლ <del>4</del> ი
Incation			bottom	1	composite at	composite at 12 ft BGS					

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 Revised Junction Box Upgrade Work Plan (July 16, 2003) collected in a skewed 'W' pattern.

**2008 BTEX Study** 

Revised Junction Box Upgrade Plan (2003)

Cardinal Laboratories Laboratory: Eric Garrison 10/29/2008 Sampler: Date: EME Jct. A-19-2 System: Site:

	Componet	PID reading	LL_	IELD COMPOSI	ITE (mg/kg	(f
LUCATION		(mqq)	Benzene	Toluene	Ethyl Benzene	Total Xylenes
1 molt	NORTH wall	25.0				
4-Wall	SOUTH wall	0.7				0.206
	EAST wall	247.0	000.04		0.139	0.090
	WEST wall	97.8				4 <b>11 - 117 - 117</b>
				LAB COMPOSI1	re (mg/kg)	
	·		<0.050	<0.050	0.132	0.395

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

CHLORIDE CONCENTRATION CURVE

## RICE Operating Company

# **EME A-19-2** Unit 'A', Sec. 19, T21S, R36E

Backhoe samples at 5 ft west of the junction (source)

					_				
[CI] ppm	140	205	118	148	145	149	118	145	89
Depth bgs (ft)	4	5	9	7	8	6	10	11	12



