1R - 427-277

REPORTS

DATE:

3-8-10

EME Jct P-19 2009 1R427-297

RECEIVED

APP - 5 2010

Environmental Bureau
Oil Conservation Division

CLOSURE

ΔPP - 6 2010

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

Environmental Bureau Oil Conservation Division

BOX LOCATION

SWD SYSTEM .	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNT		MENSIONS - FE	
Eunice Monument Eumont (EME)	Jct. P-19	Р	19	198	37E	Lea	Length	Width eliminated	Depth
	M	STATE X	FEE LA	NDOWNER	(OTHER		
Depth to Ground	dwater	40	feet	NMOCE	SITE ASS	ESSMEN	IT RANKING S	CORE:2	20
Date Started_	9/30/2	800	Date Cor	mpleted	11/3/2009	oci	D Witness	no	
Soil Excavated _	400	cubic ya	rds Exc	avation Le	ngth 30	Wid	dth 30	Depth 12	feet
Soil Disposed_	48	cubic ya	rds Off	fsite Facility	Sund	lance	Location _	Eunice, N	1M
FINAL ANALYTIC	CAL RES	ULTS:	Sample	Date 11	10/27/200 /21/2008, 11/	8, /3/2009	Sample De	oth 12 ft, 2	4 ft, 27 ft
Procure 5-point com sidewalls. TPH ar approved lab ar	nd Chloride I	aboratory	test results of	completed b	y using an	İ	CHLOR	DE FIELD TE	STS
Sample Location	PID (field		RO g/kg	DRO mg/kg	Chlorides mg/kg		LOCATION	DEPTH	mg/kg
4-WALL COMP.	69.7		8.2	766	608	$\neg \mid \Gamma$	4-wall comp.	n/a	487
воттом сомр.	62.8	3	5.1	1210	192		bottom comp.	12'	249
BLENDED BACKFILL	32.6	<1	0.0	623	64		olended backfill	n/a	149
SB#1 @ 24'	1.8	<1	0.0	<10.0	208		background	6"	175
SB#1 @ 27'	1.2	<1	0.0	<10.0	112		SOIL BORING	15'	302
	•					_ `	at 8 ft	18'	329
General Description o	f Remedial	Action:	This junction	box was elin	ninated durin	g	northeast of	21'	362
the pipeline replacement/upgrade program. After the former junction box was removed, the junction 24' 420									
an investigation was cond	ducted using	a backhoe	to collect soil	samples at r	egular interv	als	(11/3/2009)	27'	317
producing a 30x30x12-ft-	deep excava	ion. Chlor	ide field tests	performed o	n each samp	le			
yielded generally low con	centrations.	Organic va	pors, measur	ed using a P	ID, yielded so	ome eleva	ted concentration	ns. Representa	tive
composite samples were	sent to a cor	nmercial la	boratory for a	nalysis of chl	loride and TF	H, which	yielded elevated	concentrations	of DRO.
The excavated soil was b	lended on sit	e with clea	n, imported se	oil and return	ed to the exc	avation to	ground surface	and contoured t	o the
surrounding area. On 11			. 					 	
at a normal rate. To furth	 	<u>.</u>							
junction box site. The box					·				
organic vapors. The 24 a		·			 	<u> </u>			
concentrations of each.							MOCD was noti	fied of potential	ground-
water impact on 4/15/200	9, but further	evaluation	of the site de						
· · · · · · · · · · · · · · · · · · ·				enclosures:	photos, bori	ng log, lab	results, PID (fie	ld) screening, cl	nloride curv
I HEREB	Y CERTIFY	THAT TH		TION ABO			OMPLETE TO T	HE BEST OF	MY
SITE SUPERVISOR, REPORT ASSEMBLED BY	Jordan Woodf Katie Jones	n SIG	NATURE	Jorda ()	n Wood		COMPANY_	RICE OPERATIN	G COMPANY
PROJECT LEADER Lar	ry Bruce Bake	<u>r Jr.</u> SIG	NATURE /	arry B	icice Ba	kar Ja.	DATE_	<u> 3 - 5 -</u>	70

EME Jct. P-19 Unit P, Section 19, T19S, R37E



excavating the former junction box site, facing east 9/30/2008

Page 1 of 2



collecting a soil sample, facing southeast

10/13/2008









Page 2 of 2

Logger: Lara Weinheimer Harrison & Cooper, Inc. Drilling Driller: N/A - ROC junction Consultant: box upgrade plan Drilling Method: Air rotary Start Date: 11/3/2009 11/3/2009 End Date:

All samples were from cuttings.

Located 8 feet NE of the former junction box site.

Comments:

Frm. jct. box site 9 SB-1 0 3.5 7



Project Name:

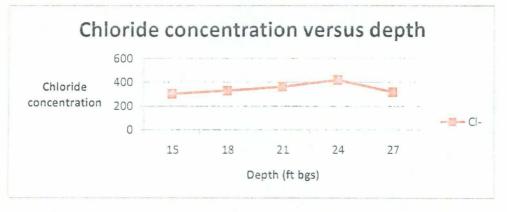
Well ID:

EME jct. P-19

SB #1

Location: UL/P sec. 19 T19S R37E Lat: 32°38'23.104"N

	TD = 2	/ ft		Estimated depth to GW = 40 ft	Long: 103°17'9.9	948" W State: NM
Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
15	302		12	12 - 18 ft VERY FINE TO FINE SAND; CALICHE light brown, dry, strong hydrocarbon odor		
18	329		2.3			
21	362		2	18 - 27 ft VERY FINE TO FINE SAND; CALICHE		bentonite
24	420	CI- 208 GRO <10.0 DRO <10.0	1.8	brown, slightly moist, moderate to no odor by end of bore		
27	317	CI- 112 GRO <100	1.2		•	
		DRO <100				





ANALYTICAL RESULTS FOR RICE OPERATING COMPANY

ATTN: HACK CONDER

122 W. TAYLOR HOBBS, NM 88240 FAX TO: (575) 397-1471

Receiving Date: 11/03/09 Reporting Date: 11/09/09

Project Owner: NOT GIVEN Project Name: EME JCT P-19

Project Location: EME JCT P-19

LAB NUMBER SAMPLE ID

Sampling Date: 11/03/09 Sample Type: SOIL

Sample Condition: INTACT Sample Received By: CK Analyzed By: AB/HM

GRO DRO

 $(C_6-C_{10}) (>C_{10}-C_{28})$ CI*

(mg/kg) (mg/kg) (mg/kg)

ANALYSIS DATE	11/06/09	11/06/09	11/05/09
H18639-1 SB#1 @ 24'	<10.0	<10.0	208
H18639-2 SB#1 @ 27'	<10.0	<10.0	112
Quality Control	590	591	500
True Value QC	500	500	500
% Recovery	118	118	100
Relative Percent Difference	11.3	15.0	2.0

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

Chemist

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(605) 393-2326 FAX (505) 393-2476. (325) 673-7001 FAX (325)673-7020

Company Name:	e: Rice 'Operating Company		O1 7718	-	ANALYSIS, REQUEST	REQUEST
Project Manage	Project Manager: Hack Conder		P.O. #:			
Address: 122	Address: 122 West Taylor		Company:			1
city: Hobbs	Sta	State: NM Zip: 88240	Attn:			
Phone #: 393-9174		Fax #: 397-1471	Address:		(
Project #:	Proj	Project Owner:	City:			
Project Name:	F P.1		State: Zip:	Sə))	
Project Location:	11: Bung ict 12-19	19	Phone #:		Ls	
Sampler Name:	Sampler Name: Lara Weinheimer		Fax #:	8 F	(38	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	Ho	 xə	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP: # CONTRINERS GROUNDWATER WASTEWATER SOIL OIL	. В В В В В В В В В В В В В В В В В В В		<u></u>	
TOPI	53 141 B	>	`	7		
7-	Siz in 6 271		(11.3.2g 7:1)	7		
					-	
PLEASE NOTE: Limitive	PLEASE NOTE: Littility and Dannings. Cardinal's fieldlity and class's ancluake remety for any claim mising or	about the second of the second	of perfectively be from the first test to the second and the the second			

PLEASE NOTE: Linkily and Damagos, Cardina's iduality and starts actuate reservery for any claim atishing whether based in contract or fort; shall be limited to the amount paid by the cleant for the manyors. At advances and says of secretary and secretary controlled by Cardinal Markin's 30 days after completion of the applicable recover. In no event and Serving the Enths for Indication or consequented amonges, including without bindship, hinted secretary integrates the or of profession and secretary an

Relinquished By	Date:	Received By:	Phone Result: . [] Yes 2 No Add'l Phone #:
Wainhaimer	Time:	•	Fax Result: Yes Zi No Add'i Fax #: REMADR'S:
Relinquished By:	33	Received By:/	emoil recults
	- 1		
	1000 T		
Delivered By: (Circle One)	·-	CHECKED BY:	Hconder@riceswa.com; Jpurvis@riceswa.com;
Sampler - UPS - Bus - Other:		Cool Unitact (Initials)	Lweinheimer@riceswd.com
		I No. I No.	

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

CM ICE COOMOGERS PRED SAMPLES BACK, PLEASE

RICE OPERATING COMPANY

The state of the s

- Market 122 West-Taylor ~ Hobbs, NM 88240

22 W 35 P 36 P PHONE (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM SERIAL NO: 590-000183 CK. MODEL: PGM 7300 MODEL: PGM 7300 SERIAL NO: 590-000504 MODEL SERIAL NO: 110-12383 NO. MODEL: PGM 7600 MODEL: PGM 7600 SERIAL NO: 110-02920 GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE EXPIRATION DATE: 1-11-2012 LOT NO: 924908 METER READING ACCURACY: 100.1 FILL DATE: 7-30-09 ACCURACY: +/- 2% SITE UNIT SECTION TOWNSHIP SYSTEM RANGE 19 P-19 T195 jet P EME R37F SAMPLE ID: DEPTH PID DEPTH PID **DEPTH** PID DEPTH PID 15' 12.0 18' 2.3 21' 2.0 241 1.8 27' 1.2 DEPTH PID DEPTH PID DEPTH PID DEPTH PID I verify that I have calibrated the above instrument in accordance to the manufacture's operation manual. Signature Date 11-3-09 SITE MAP Ν



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: JORDAN WOODFIN 122 W. TAYLOR HOBBS, NM 88240.

Receiving Date: 10/27/08 Reporting Date: 10/29/08

Project Number: NOT GIVEN

Project Name: EME JCT P-19

Project Location: EME JCT P-19

LAB NUMBER SAMPLE ID

Sampling Date: 10/27/08 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: ML

Analyzed By: A.B.

	DRO	GRO
CI*	(>C ₁₀ -C ₂₈)	(C ₆ -C ₁₀)
(mo/ka)	(ma/ka)	(ma/ka)

ANALYSIS	DATE	10/2/8/08	10/28/08	10/29/08
H16203-1	5PT BTM COMP @ 12 FT	35.1	1,210	192
H16203-2	4 WALL COMP	18.2	766	608
Quality Con	trol	554	499	500
True Value	QC	500	500	500
% Recovery	,	111	99.8	100
Relative Per	rcent Difference	0.9	8.2	<0.1

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL 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:	: Lice CHARATAC	לאלה								8	BILL TO	0			,	1	1	ANY	ANALYSIS	- 1	REQUEST	EST	į				
Project Manager:	<u>.</u>							ď.	P.O. #:															:			
Address: /	Address: / I - V/C/L							ပိ	Company:	any:				معدد درسيد ا													
city: インに寄う	-	State(1/1/2 Zip: \$35240	j. 5	133	754	(3		At	Attn:																		
Phone #: - : - : = = 등	4- 4	Fax#: 578)597 -19	ر. د	3,7	6 %			A A	Address	35.				. (
Project#:	Proje	Project Owner:						<u>ਹ</u>	City:								1 1 m										
Project Name:	アントントントン	, c,						St	State:		Zip:							· \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \									
Project Location:	1: £12.6 Ja.7.	17						<u>ة</u>	Phone #:	#:					l. 				<i>,</i> ,								
Sampler Name:	JERUTY LYBOREAU	ドエハ						r.	Fах #:								_	1	·, ' .								
FOR LAB USE ONLY			<u></u>	_		MATRIX	ΧΞX		PRE	PRESERV	_	SAMPLING	ING	<i>()</i>					<u>./</u> .*	. <u></u>							
Lab I.D.	Sample I.D.		.GMO(3) RO BAR(8)	# CONTAINERS	RETAWQUUORD RETAWETSAW	7108	01F	SLUDGE OTHER:	ACID/BASE:	ICE / COOF	: ЯЗНТО 	DATE	TIME	AND CAMPANIAN AND AND AND AND AND AND AND AND AND A	108Hd1 :	1-7621/11											
14116205-1	Tot Britishipe Cit					بح				-	-	10-12-01	2	<u>لا</u>										-			
.2.	واسمي الاصاب		<u> </u>			يد'	-			إبدا	- 27	6222-01			31				-	$\frac{1}{1}$					<u>-</u>		
			- -		-		-							_		<u> </u>	+	-	+	-	-	+	+				
			 	1 1			+		<u> </u>					1													1 :
				\dashv	+			-			-					-	-			_ _		<u> </u> 	<u> </u>	-			
				+				-						-	-		-	<u> </u>				<u> </u>	1				
				+				\vdash														<u> </u>					
AND E. COMMUNICATION OF THE PROPERTY OF THE PR			-	\neg		_					_							_		1			_			1.22	

PLEASE HOTE: Lichliffy and Damages. Cardinal's fichtify and elient's evolutive temesty for any other anising whether based in contract or fort, shall be harborn to the emajorn paid by the citient for the shall be made in withing and received by Cardinal within 30 days after empty and entering a shall be advanted where the made in withing and received by Cardinal within 30 days after empty and in the applicable service. In an access table for the incidential of consequential damages, including valued finitiation. Dustiness to these plant the instruct or plant in contract the plant in the instruction in an access to the contract of the safety.

infilled and to be belong the second of the second second in the second	indigues on accessore mobility and and ordered to the performance of services incremined by Cargolinal regularities and virtualities and virtualities and the services of the services increased in the services of the servic	Output the analysis of the second of the sec
Relinquisted By:	Date: 1 Nes 1.1 No Add'l Phone #:	
Cember Lycophine	Time 1. 45 will not the REWARKS: Franch Regul 1 Fer to	
Refinquished By:	Date: Received By Sales Received By Sales	(0)
	Time:	ري وي .
Delivered By: (Circle One)		
Sampler - UPS - Bus - Other:		

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

RICE OPERATING COMPANY

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

		Check	Mod'el Niumber:	_	
		o: 590-000183		Model: PGM 7600	Serial No: 110-023920
		o: 590-000508		Model: PGM 7600	Serial No: 110-013744
Mode	l: PGM 7300 Serial No	o: 590 - 000504		Model: PGM 7600	Serial No: 110-013676
	GAS COMPOSITI	ON: ISOBUTY	LENE 100PPM / AIR: 1	BALANCE	
LOT NO:	3-3425		EXPIRATION DATE:	18.29-29	
FILL DATE: Z	-29-08	•	METER READING A	ccuracy: 100	
		ACCURAC	EY:+/- 2%		
SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	P-19	7	19	19	37
		<u> </u>			
SA	MPLE ID	PID	SA	MPLE ID	PID
Jot Bot	ton Comp.	62.8	4 wall	Comp.	69.7
			1004		
			-		
· · · · · · · · · · · · · · · · · · ·					
<u> </u>					
		 			

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

SIGNATURE Indan Woodf

DATE: 10-27-08



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

Receiving Date: 11/21/08
Reporting Date: 11/24/08
Project Number: NOT GIVEN
Project Name: EME_JCT P-19

Project Location: EME JCT P-19

Sampling Date: 11/21/08 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AB Analyzed By: AB/HM

*		
G	ro dr	ro.
(C _e	₃ -C ₁₀) (>C ₁₀ -	-C ₂₈) C/*
ER SAMPLE ID (m	ig/ka) (mg	g/kg) (mg/kg)

ANALYSIS DATE	11/21/08	11/21/08	11/21/08
H16374-1 BLENDED BACKFILL	<10.0	623	64
Quality Control	586	517	500
True Value QC	500	500	500
% Recovery	117	103	100
Relative Percent Difference	10.9	0.1	< 0.1

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

Lab Director

Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL 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. A	## C	BILL TO	ANALYSIS REQUEST
Project Manager:		P.O. #:	
Address:		Company:	
City: " ' s. !h	State: J. J. Zip: State:	Attn:	
Phone #: 718 477	Fax #4% /55 / 12 / 27 / 1	Address:	
Project #:	Project Owner:	City:	
Project Name:		State: Zip:	
Project Location: (1) 1/2 10 10 10 10 10 10 10 10 10 10 10 10 10		Phone #:	
Sampler Name:		Fax #:	
FOR LAB USE OILLY	EB S	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	O) AO B ABAIATI TAWQIVI	3 SYSE:	
	(G) KAI	OTHER OTHER TIME	
HL574-1 (2000) (2000)		25 X 20,5 20E/ 1	
	-		
TEASE INCIE: Libelity and Danages. Cardinal's liability and deatte exclusive remety for any darm arising whether based in confract or Inct. shall be limited to the amount and by the clean for the	it's exclusive remety for any claim arising whether based in contra	act or luct. Shall be finited to the amount and by the closif for the	
nnkyses. At deinss stabliding those for neigligance and any other cause whatsoeves shall be deamed waived unle cervize. In 18 event shall Cauthol be Table for inscientativa goasequental analogos, incubing without Inhaliton, minimaes on successors assisting us no related to the performingle of services hierourder by Cautholis, trigandiess	ausse whatsoever shall be deamed waived unless made in writing a uental damages, including without limitation, business interruptions of services hereunder by Caudinal, regardless of whether such clair	analyses. At claims analysing trose for negligatics and any other cause whatsoever shall be deemed varied unless made in whiting and received by Cardinal within 30 days after completion of the applicable consistent of the completion of the applicable consistent of the construction of services hereunder by Caudinal, regardless of wheter study of the above stated leasons or otherwise.	
Relinguished By:		Phone Result: U Yes D No Fax Result: U Yes D No	Add'l Phone #: Add'l Fax #:
	Date: Received By:	1.4	e.
	Time:	A 49090	
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	
Sampler: UPS - Bus - Other:	8 9 20	N/K	
† Cardinal cannot accept verbal cl	† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	0 505-393-2476	And the control of th

RICE OPERATING COMPANY

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

ACCURACY: +/-:	•		METER READING	CCURÁCY: 18672	7.8 ;	
FILL DATE: 70 3	2-29-68		METER READING	CCURÁCY: 12077	7) 18 1	
LOT NO : 존존 등	(25)		EXPIRATION DATE	: CP 25-09	29-02	
	GAS COMPOSITION	ON: ISOBUTY	LENE 100PPM / AIR:	BALANCE		
	MODEL: PGM 7600	SERIAL	NO: J10-012920			
NO.	MODEL: PGM 7600	SERIAL NO: F10-12383				
MODEL	MODEL: PGM 7600		NO: 110-013744			
CK		SERIAL	NO: 110-013676			
CK.	MODEL: PGM 7600		NO: 110-013676			

SAMPLE ID	PID	SAMPLE ID	PID
BLENDEN BELEFILL	32.6		

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

SIGNATUE: STATE OF THE STATE OF

DATE:

EME JCt. P.19 Unit 'P', Sec. 19, T19S, R37E

SOIL BORING samples at 8 ft northeast of the junction (source)

[ČI] ppm	302	329	362	420	317
Depth bgs (ft)	15	18	21	24	27

