1R - 427 - 392

REPORTS

DATE

= 2

1R427-392

And And And And And

APR 2 2013

OI Conservation Division 1120 C. C. Mandis De

... دبر یک مراح

EME H-23 EOL 2012

1 *

.

CLOSURE

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2013

LECE

APR 2 2013

Mr. Edward Hansen New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87505 Oil Conservation Division 1220 S. St. Francis Drive Sente Fe, INA 07505

RE: Termination Request EME H-23 EOL: UL/H, Sec. 23, T20S, R36E RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (SWD) System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background

In 2012, ROC initiated work on the former H-23 EOL junction box. The site is located in UL/H, Sec. 23, T20S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 106 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 30x30x12 ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons. The excavated soil was blended on site and representative composite samples of the excavation bottom and excavation walls were sent to a commercial laboratory for analysis of chloride and TPH, resulting in a 4-wall chloride concentration of 608 mg/kg, a gasoline range organics (GRO) concentration of 69.8 mg/kg and a diesel range organics (DRO) concentration of 469 mg/kg. The bottom sample resulted in a chloride concentration of 144 mg/kg, a GRO concentration below detectable limits, and a DRO concentration of 793 mg/kg. On 7/17/2012, a 20-mil reinforced plastic liner was installed at 12 ft below ground surface (BGS). The remaining excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. On 8/22/2012, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

The junction box location plat, final report, photo documentation, laboratory analysis, PID sheet, cross-section diagram, chloride graph, and revegetation form are attached.

Recommendations

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely, RICE Operating Company

Hack Conder Environmental Manager

enclosures

RICE OPERATING COMPANY JUNCTION BOX CLOSURE REPORT

					BOX LOCA					
	SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUN	TY BOX D	IMENSIONS -	FEET
	Eunice Monument Eumont (EME)	H-23 EOL	н	23	205	36E	Lea	Length	Eliminated	Depth
	LAND TYPE:	BLM <u>X</u>	STATE	_ FEE LA	NDOWNER			OTHER		
	Depth to Grou	ndwater	106	feet	NMOC	D SITE ASS	SESSME	NT RANKING S	CORE:	0
	Doto Started	7/2/	2012	- Date Co	mpleted	7/20/2012	0		No	
	Date Otanteu		2012			112012012				
	Soil Excavated	400.0	cubic ya	rds Exc	cavation Lo	ength <u>30</u> South Mor	N	/idth30	Depth	12feet
	Soil Disposed	684	cubic ya	rds Offsite	e Facility	Waste F	acility	Location	Monum	ent, NM
FINA	AL ANALYT		SULTS:	Sample	e Date	7/16/201	2	Sample De	pth	12'
Proci	re 5-point com	posite samp	le of bottom	and 4-poin	t composite	sample of s	idewalls	TPH and Chlo	ride laborat	orv test results
1100		mpleted by	using an ar	proved lab	and testing	nrocedures i	nursuan	t to NMOCD qui	delines	
		impleted by	uonig un up		and tooting	procedures	pulouun			
· · · · · ·	Sample	PID (fie	eld) G	RO	DRO	Chloride	<u>,</u>	CHLOP	RIDE FIELD	TESTS
	Location		n m	a/ka	ma/ka	ma/ka		LOCATION	DEPTH	ma/ka
	4-WALL COMP.	46.7	7 6	9.8	469	608		background	6"	153
B	OTTOM COMP.	102	5 <	:50	793	144		4-WALL Comp	n/a	210
		•						Bottom Comp	. 12'	568
Gene	ral Description	of Remedia	al Action:	This junctio	n box and lin	ne were			6'	200
elimina	ated during the pi	peline replace	ement/upgra	de program. A	After the form	ner junction		Vertical	7'	229
box wa	as removed, an in	vestigation w	as conducte	d using a bac	khoe to colle	ect soil		delineation	8'	89
sample	es at regular inter	vals, producii	ng a <u>30 x 30</u>	x 12 ft deep e	excavation. C	Chloride field		trench at the	9'	143
tests p	erformed on soil	samples did o	decrease wit	h depth. Orga	inic vapors w	/ere		former junction	10'	208
measu	ired using a PID v	which yielded	elevated cor	ncentrations.	The excavate	ed soil was		(source)	11'	203
blende	ed on site and rep	resentative c	omposite sar	nples of the e	excavation bo	ottom and			12'	121
the exc	cavation walls we	re sent to a c	ommercial la	boratory for a	inalysis of ch	nloride and				
TPH. A	A total of 684 yard	is of blended	backfill was	transported to	a NMOCD	approved disp	oosal faci	lity. On 7/17/2012	, a 20-mil rei	nforced
plastic	liner was installe	d at 12 ft. BG	S. The rema	ining excavat	ion was back	kfilled with cle	an impor	ted soil to ground	surface and	
contou	red to the surrour	nding area. O	n 8/22/2012	the site was	seeded with	a blend of na	tive vege	tation and is expe	cted to return	n to a
produc	tive capacity at a	normal rate.								
	Enclos	ures: site locat	ion map, pho	tos, laboratory	analysis, PID	(field) screenir	ngs, cross	-section diagram, c	hloride graph,	revegetation for
IHE	REBY CERTIFY	THAT THE		TION ABOV		AND COMP F.		O THE BEST OF		VLEDGE AND
F	REPORT				Y.	. /	/-			
AS	SEMBLED BY	Laura Per	ia SIC		<u> GUIR</u>	ari	m	COMPANY	Rice	Operating
				\bigcirc	-				Rice Environ	mental Consultin
SITE S		Dustin Yarbro	ough SIC		١	Not Available		COMPANY	. &	Safety
					~		0		20	10
PROJE	CT LEADER	Zach Cond	ler SIC	SNATURE		Cart		DATE	5-7-	13



EME H-23 EOL UL/H Sec. 23 (T20S-R36E)



Excavating site

7/2/2012



Collecting sample

7/16/2012



Installing 30'x30'x12' liner @ 12' bgs 7/17/2012



Backfilling site

7/20/2012



Seeding site

8/22/2012



Site completed

8/22/2012



July 19, 2012

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME H-23 EOL

Enclosed are the results of analyses for samples received by the laboratory on 07/16/12 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes are denoted by an asterisk (*).

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

alas - Treen 1

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	07/16/2012	Sampling Date:	07/16/2012
Reported:	07/19/2012	Sampling Type:	Soil
Project Name:	EME H-23 EOL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 5 PT. BOTTOM COMP. (H201625-01)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Reporting Limit Result Analyzed Method Blank % Recovery True Value QC Analyte BS RPD Qualifier 16.0 07/18/2012 Chloride 144 ND 400 400 100 3.92 TPH 8015M mg/kg Analyzed By: AM Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier 50.0 GRO C6-C10 <50.0 07/18/2012 ND 166 83.1 200 7.23 DRO >C10-C28 50.0 07/18/2012 793 ND 171 85.7 200 6.06 Surrogate: 1-Chlorooctane 69.5 % 65.2-140 115 % 63.6-154 Surrogate: 1-Chlorooctadecane

Sample ID: 4 WALL COMP. (H201625-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	07/18/2012	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: AM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	69.8	50.0	07/18/2012	ND	166	83.1	200	7.23	
DRO >C10-C28	469	50.0	07/18/2012	ND	171	85.7	200	6.06	
Surrogate: 1-Chlorooctane	76.5	% 65.2-14	0						

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

COPY

*=Accredited Analyte

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 waiwed unless made in writing and received by Cardinal within thinty (30) days after completion of the applicable service. In no event shall cardinal be lable 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 one performance of the services hereunder by Cardinal, regardless of whether such claim is based to be stated teacomer or otherwise. Results relate only to the sample identified above. This report shall not be reported enduced weight in divide writes approval of Cardinal Laboratories.

Celey Di Keine

115 %

63.6-154

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

*=Accredited Analyte

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim artsing, 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 tause 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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey Di Kune

Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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	RICE Operating										B	LL TO					·······	ANAI	YSIS	S RE	QUE	ST			
Project Manage	" Zach Conder							F	P.O.	#:	iter, seatter									1			T		
Address: 112 W. Taylor						Company:						S													
City: Hobbs		State: NM	Zip	: 88	240			4	Attra	:								6							
Phone #:		Fax #:						ļ	١dd	ress	:							, I							
Project #:		Project Owner						c	City						Σ	2	T	S/F							
Project Name:	· · · · · · · · · · · · · · · · · · ·							s	State	e:		Zip:		ğ	15	×	ሮ	5							
Project Location	: EME H-23	EUL						F	hó	ne #	:			ĿĔ	l ò	ш	່ທ	ati	00						
Sampler Name:	Dusty VARBRI	iO611					<u>.</u>	F	ax	#:				ĬĔ	Ĩ	В	Xa	Ó	F						
FOR LAB USE ONLY	ł				r	MA	RIX	r.	P	RES	ERV	SAMPL	ING	U	ā		Te	ete							
Lab I.D. H2D11625	Sample I	.D.	(G)RAB OR (C)OM	# CONTAINERS	GROUNDWATER	WAS I EWA I EK SOIL	DIL	SLUDGE	OTHER:	AUIU/BASE:	OTHER :	DATE	TIME					Comple							
	SPT. Dorton	Comp	<u>C</u>									17-16-12	2:10	· · · · · · · · · · · · · · · · · · ·	1										
	4 WALL Cor	ир	C	<u> </u>								7-16-12	2:15						·						
· · · · · · · · · · · · · · · · · · ·	i				<u> </u>								·		·				-i				-		
······	**************************************																								
·····																									
·····	·······						_																		
		· · · · · · · · · · · · · · · · · · ·																							
			<u> </u>				.					<u>l</u>											<u>.</u>		
PLEASE NOTE: Liphility an analyses, All claims includin service. In no event shall Ca affiliates or successors artisi	d Damages. Chulingts flability and ch g those for negligence and any other willingt be leade for incidnistal or consu ing out of or ight to the performance	tent's exclusive remarly for a cause whatsoever shall be equental damages, including e of services hereinder by C	iny clai deomo wilhoi ardinal	n arisır I walvo d limito i regard	g whet d unles lion, bu fless of	ter based s mode in siness int whether	in con writing erruptic uch cl	stract or g and re uns, los luim is t	toit, s recive s of in sused	thall be d by Ca se, or k upon a	linited ardinal ass of p ity of ti	to the amount pa within 30 days after mafils incurred by an above stated re	id by the client for or complation of th client, its subsidia aisons or otherwis	the no app§ca ries, ió.	lsto										
Relinquished By		Date: 1-115-12-	Re	çeiv	edE	ly:		11					Phone Re Fax Resul	sult: t:	O Ye	s 121 s 121	No. No	Add I Add I	Phone Fax #:	#;					
10-57 UTIN	hum (Time:		\mathcal{O}	a,	<u>,</u>	ر الرب	lle	M)	09-1	Land	REMARKS	S:											
Relinquished By	pro s-O	Date:	Be	ceiv	ed E	iy:	<u> </u>				<u> </u>		email	rest	ilts										
`~′		Time:											Zcono	der@))rice	e-ecs	.cor	n; Bl	bake	er@r	ice-e	ecs.c	om;		
Delivered By:	(Circle One)		J		S	ample	Con	ditio	n	CI	HEÇI	<u> Қ</u> ЕР ВҮ:	hcond	er@	rice	ecs.	com	ı; Lw	einh	eim	er@ı	rice-e	ecs.c	om;	
Sampler - UPS	- Bus - Other:	3			c l	ool / L'Yes] No	ntac 区 口	Yes No			(thi	tials)-	kjónes	@ri	cesv	vd.co	om'j	đw _y	iarlsr.	ovsh	- (@.r:	، - ين i	305 . C	iann	

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

RICE ENVIRONMENTAL CONSULTING & SAFETY

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

CK.	
MODEL	
NO.	
	x

MODEL: PGM 7300 SE MODEL: PGM 7300 SE MODEL: PGM 7320 SE MODEL: PGM 7300 SE

 SERIAL NO:
 590-000508

 SERIAL NO:
 590-000504

 SERIAL NO:
 592-903318

 SERIAL NO:
 590-902072

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: HAL-248-100-1

EXPIRATION DATE: 7/1/2015

METER READING ACCURACY: 100 ppm

ACCURACY : +/- 2%

COMPANY	
Rice Operating Company	

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	H-23 EOL	Н	23	20S	36E

SAMPLE ID	PID	SAMPLE ID	PID
Bottom 5 Pt. Composite	1025		
4 Wall Composite	46.7		
		· · · · · · · · · · · · · · · · · · ·	
		· · · · · · · · · · · · · · · · · · ·	
	,		i
· · · · · · · · · · · · · · · · · · ·			
			Ń. 17
		t COP	

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

SIGNATURE: Not Available

DATE: 7/16/2012

EME H-23 EOL Unit 'H', Sec. 23, T20S, R36E

Excavation Cross-Section



S

30 ft.

CHLORIDE CONCENTRATION CURVE

EME H-23 EOL

Unit 'H', Sec. 23, T20S, R36E

Backhoe samples at junction (source)





PO Box 5630 Hobbs, NM 88241 Phone: (575) 393-4411 Fax: (575) 393-0293

REVEGETATION FORM

1. General Informat	ion					
Site name	EME H-23	EOL				
U/L	Section	Township	Range	County	Latitude	Longitude
Н	23	20S	36E	Lea	32°33'31.9" N	103°19'10.0" W
Contact Name:	Zach Cor	lder				
Email:	zconder@r	ce-ecs.com		· .		
Site size: 80'x100'	8,000	square feet	Map de	etail of site atta	ched	
Additional information:						
2. Soils *De	o not rip caliche	subsoils; caliche r	ocks brought to the s	urface by rippin	g shall be removed.	
Salvaged from site 🛛	Bioremediat	ed 🗌 🛛 Im	ported 🛛 🛛 🛛 🛛 🛛 🛛 🛛 🛛	lended 🔀	Depth (in):	
Texture: Sandy	Describe soi	1 & subsoil:	Sandy soils			
Soil prep methods: R	ip 🗌 🛛 I	Depth(in):	Disc Dep	oth (in):	Rollerpack	
Date completed: 7/20/	2012					
L			· · ·		· · · · · · · · · · · · · · · · · · ·	
3. Bioremediation						
Fertilizer			Hay		Other	
Type:		· · · · · · · · · · · · · · · · · · ·			Describe:	
- J F						
Lbs/acre:						
				·		······································
4. Seeding *At	tach seed bag ta	gs to this form. Se	ed bag tags shall con	tain the site nam	e and S-T-R.	0.000.000
Custom seed mix 🔀	Prescribed mix		x name: 10 lb.	Blue Grama a	nd Seeding date	: 8/22/2012
D 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			10 ID. 1	Side Oats Gra	ma	
DIOAGCASI	act					
Soil conditions during of	asi Peding: Dr	1 Dame	Wet 🗌			
Photos attached	Observati	ons' Seed u	vas raked into soil			
Number of photos		ons. Secu w	as I arcu 11110 3011	•		
						<u></u>
5. Certification I he	reby certify that th	e information in this	form and attachments i	s true and complet	e to the best of my knowl	edge and belief.
Name: Eduardo	Garcia	Tit	le: Environmenta	Tech	Date: 8/22/201	2
Signature: Cold	ruch	auros	2			· · · · · ·
		<u></u>				
				·		

COPY