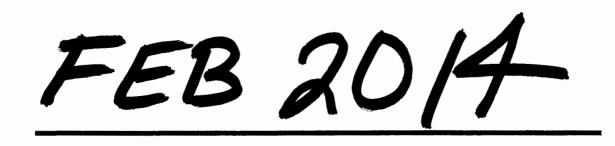
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REPORTS

DATE:



Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 9019

November 12, 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

> RE: Termination Request EME M-10 (1R427-118): UL/M, Sec. 10, T21S, R36E RICE Operating Company – Eunice Monument Eumont (EME) SWD System

2000 19 /P 3:23

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 and Previous Work

In 2001, ROC initiated work on the former M-10 junction box. The site is located in UL M, Sec. 10, T21S, R36E. An updated survey of NM OSE records, conducted in 2013, indicate that groundwater would likely be encountered at a depth of approximately 196 +/- feet. The site was delineated using a backhoe to form a 10x10x6-ft deep excavation and soil samples were screened at regular intervals for chlorides. Each sample was field titrated for chlorides. Representative composite samples of the sidewalls and bottom were submitted to a commercial laboratory to be analyzed for chloride, TPH, and BTEX. The sidewall composite resulted in a chloride concentration of 198 mg/kg, gasoline range organics (GRO) and BTEX concentration below detectable limits, a diesel range organics (DRO) concentration of 334 mg/kg. The bottom composite sample resulted in a chloride concentration of 1,130 mg/kg, a GRO concentration of 104 mg/kg, a DRO concentration of 3,780 mg/kg and BTEX concentrations below detectable limits. A compacted clay layer was installed and will provide a barrier that will inhibit the downward migration of chlorides to groundwater. A total of 12 cubic yards of excavated soil was properly disposed of at a NMOCD approved facility. The excavation was backfilled to ground surface and contoured to the surrounding area. A new, watertight junction box was installed at the site; therefore, seeding is not necessary.

Further investigation

To further investigate the depth of chloride presence, a soil bore was initiated on February 11, 2013 at 10 ft northeast of the former junction box site. The boring was advanced to a depth of 30 ft below ground surface (bgs) with soil samples collected every 5 ft. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in low

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

concentrations. The 20 ft and 30 ft samples were sent to a commercial laboratory for analysis. The 20 ft sample resulted in a chloride concentration of 912mg/kg. DRO and GRO concentrations were below detectable limits. The 30 ft sample resulted in a chloride concentration of 176 mg/kg. DRO and GRO concentrations were below detectable limits. The solution of the entire bore hole was plugged with bentonite to ground surface.

Vegetation has rebounded at this site; vegetation will act as an evapo-transpiration barrier that will also inhibit the downward migration of chlorides and hydrocarbons. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone.

The junction box site location map, area map, junction box report, soil bore plat, log, laboratory analysis and current documentation 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)393-2967 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,

Hores

Laura Flores Project Manager RECS

Enclosures



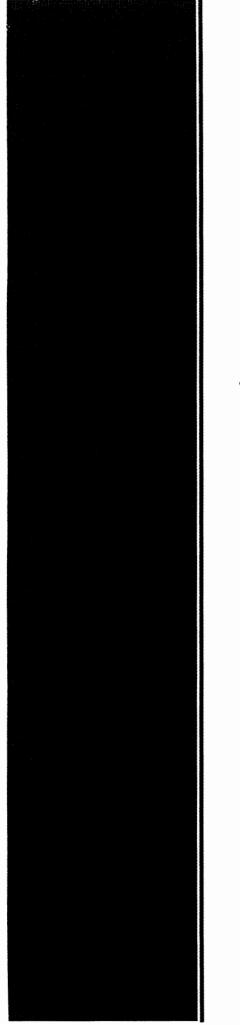
Site Maps

RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

Site Location Map







Junction Box Report

RICE Operating Company (ROC) 112 West Taylor Hobbs, NM 88240

Phone: (575) 393-9174 Fax: (575) 397-1471

427-118

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

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				BOX LOC	ATION					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	MENSIONS	- FEET	٦
FILE	14.40		40	010	005	154	Length	Width	Depth	7
EME	M-10	M	10	21S	36E	LEA	5'	5'	5'	
LAND TYPE: E	BLM	STATE X	FEE LA	NDOWNER						
Depth to Grour	ndwater	>100	feet	NMOCE) SITE ASSI	ESSMENT	RANKING S	CORE:	0	
Date Started	09/24	/2001	Date Co	mpleted	02/27/2001	OCD	Witness	1	10	
Soil Excavated	20	cubic yan	ds Exa	cavation Le	ngth10	Width	10	Depth	6	feet
Soil Disposed	12	cubic yan	ds Of	fsite Facility	SUND	ANCE	Location	EUI	NICE,NM	
FINAL ANALY		RESULTS	: Sampl	e Date	10/14/2	001	Sample De	pth	6'	

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
SIDEWALLS	< 0.005	< 0.005	< 0.005	<0.015	<50	334	198
BOTTOM	< 0.005	< 0.005	< 0.005	<0.015	104	3780	1130

MOCD guidelines. Installed compacted clay line	and water tight junction box and backfilled.			
		LOCATION	DEPTH	mg/kg
		SIDEWALLS	2'	160
		BOTTOM	6'	990
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 KNOWLEDGE AND BELIEF.

 DATE
 O2/14/2001

 PRINTED NAME
 James Strugill

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

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HOE

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

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JAMES STURGILL 122 W. TAYLOR HOBBS, NM 88240 FAX TO:

Receiving Date: 11/14/00 Reporting Date: 11/15/00 Project Number: NOT GIVEN Project Name: M-10 SIDES & BOTTOM EME Project Location: UM SEC 10-T21S-R36E Sampling Date: 11/14/00 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC/AH

LAB NUMBER SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	: Cl* (mg/Kg)
ANALYSIS DATE	11/14/00	11/14/00	11/15/00
H5341-1 M-10-SIDE	<50	334	198
H5341-2 M-10-BOTTOM	104	3780	1130
Quality Control	787	804	954
True Value QC	800	800	1000
% Recovery	98.3	100	95.4
Relative Percent Difference	7.7	0.9	4.9

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

H5341A.XLS

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

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: JAMES STURGILL 122 W. TAYLOR HOBBS, NM 88240 FAX TO:

Receiving Date: 11/14/00 Reporting Date: 11/16/00 Project Number: NOT GIVEN Project Name: M-10 SIDES & BOTTOM EME Project Location: UM SEC 10-T21S-R36E Sampling Date: 11/14/00 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC

				ETHYL	TOTAL
		BENZENE	TOLUENE	BENZENE	XYLENES
LAB NO.	SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
	·,				
ANALYSIS D	ATE	11/15/00	11/15/00	11/15/00	11/15/00
H5341-1	M-10-SIDE	<0.005	< 0.005	< 0.005	<0.015
H5341-2	M-10-BOTTOM	< 0.005	< 0.005	< 0.005	<0.015
			· · · · · · · · · · · · · · · · · · ·		
				· · · · · · · · · · · · · · · · · · ·	
Quality Contr	01	0.094	0.095	0.087	0.266
True Value Q	С	0.100	0.100	0.100	0.300
% Recovery		93.8	94.7	87.2	88.6
Relative Perc	ent Difference	1.4	3.8	0,5	2.8

METHOD: EPA SW-846 8260

A Cashe

16/00

Date

H5341B.XLS

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LEASE NAME:		pn- 10	
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[] Production Water [] Tank Bottoms [] Other Material: Description:	[] Drilling Fluids [] Contaminated soil [] BS&W Content:	[] Completion Fi [] C-117 No.:	uids
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Soil Bore Installation Documentation

RICE Operating Company (ROC) 419 West Cain Hobbs, NM 88240

419 West Cain Hobbs, NM 88240 Phone: (575) 393-2967 Fax: (575) 393-0293

Logger: Driller:			yle Norm on & Coop		SB-1	R	BO & SAPENTIL
Drilling M Start Date			Air rotan 2/11/201		ROC	Project Name: EME M-1	Well ID: 0 SB-1
End Date			2/11/201				
Comme	currer		tion bo	x. All sam	east of the center of the ples were from cuttings. a Weinheimer GW = 100 ft	Location: UL/M s Lat: 32°29'19.81" Long: 103°15'29.	
Depth (feet)	Chlor field te		LAB	PID	Description	Lithology	Well Construction
					Red Sand		h
SS	198		-	0.9	Neu Salid		
33	190	,		0.9			
					Tan/Red Sand		
5 ft	150)		1.6			
10 ft	240			5.1			
10 11	240			0.1			
15 ft	776	3		1.1			bentonite seal
			CI-				
20 ft	897	,	912 GRO	2.4	Red Sand		
			<10 DRO <10				
25 ft	269)	-10	7.9			
30 ft	171		CI- 176 GRO	1.3			
			<10 DRO <10				



February 15, 2013

Hack Conder Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: EME M-10

Enclosed are the results of analyses for samples received by the laboratory on 02/11/13 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/ga/lab accredited certif.html.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	02/11/2013	Sampling Date:	02/11/2013
Reported:	02/15/2013	Sampling Type:	Soil
Project Name:	EME M-10	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SB-1 @ 20' (H300386-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	02/14/2013	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/14/2013	ND	210	105	200	2.24	
DRO >C10-C28	<10.0	10.0	02/14/2013	ND	194	96.8	200	5.26	
Surrogate: 1-Chlorooctane	86.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.3	% 63.6-15	4						

Sample ID: SB-1 @ 30' (H300386-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/14/2013	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/14/2013	ND	210	105	200	2.24	
DRO >C10-C28	<10.0	10.0	02/14/2013	ND	194	96.8	200	5.26	
Surrogate: 1-Chlorooctane	86.9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.7	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



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 SM4500Cl-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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79003 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	Bice			-			-			Ø	11.1	L TO				un-u		ANA	YSIS	RE	QUES	ST			
Project Manager: Hack Conder				P.O. #:]			1					1	T						
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City: Hobbs	State: NM	Zip	: 88	240)			Alin	:					l	[b l							
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Project Location	NEME M-10						1	Phone #:			Chlorides	801	BTEX	5	ați	TDS									
Sampler Name:								Fax	# :					읃			Техаз								
FOR LAB USE ONLY		Γ	\square		ĥM	ATRI	K	P P	RES	ERV		SAMPLI	NG	10	Hdl		e l	te							
Lab I.D. H300386	Sample I.D.	SIGNABOR COMP	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GROUNDWATER	WASTEWATER	OI	SLUDGE	01HGR		OTHER:	-	DATE 7/4 3 7/7 3	TIME 1:30 1272	4				Complete							
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service, In no event shall Ca	g mose or regigence and any orier cause whendowy she be winnel be Rable for incidental or consequental damages, including ug out at or related to the performance of services hereunder by C	workw g	i fermita là	an, bu	niness t	n lernup l	ions, in	a of us	Ha, or la	as of p	Hotes	mourred by a	Pent, its subschool	ica.	~*										
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Time: Time: Knorman@rice-ecs.com; lpena@riceswd.com Delivered By: (Circle One) Sample Condition CHECKED BY: Sampler - UPS - Bus - Other: Sample Condition CHECKED BY: Delivered By: (Circle One) Sample Condition CHECKED BY: Sampler - UPS - Bus - Other: Dol No Mod No					om																				

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

#26

RICE ENVIRONMENTAL CONSULTING & SAFETY

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



MODEL: PGM 7300	SERIAL NO:	590-000508
MODEL: PGM 7300	SERIAL NO:	590-000504
MODEL: PGM 7320	SERIAL NO:	592-903318
MODEL: PGM 7300	SERIAL NO:	590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : HAL-248-100-1

EXPIRATION DATE: 7/01/2015

METER READING ACCURACY: 99.9 PPM

ACCURACY : +/- 2%

 COMPANY	
RICE	

SITE	UNIT	SECTION	TOWN SHIP	RANGE
EME M-10	М	10	T-21-S	R-36-E

SAMPLE ID	PID	SAMPLE ID	PID
Soil Bore #1 @ Surface	0.9		
Soil Bore #1 @ 5'	1.6		
Soil Bore #1 @ 10'	5.1	·	
Soil Bore #1 @ 15'	1.1		
Soil Bore #1 @ 20'	2.4		
Soil Bore #1 @ 25'	7.9		
Soil Bore #1 @ 30'	1.3		

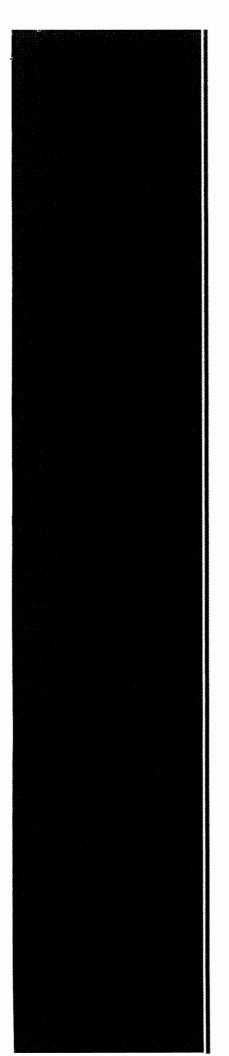
I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

01

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SIGNATURE:

DATE: 2-11-2013



Current Photodocumentation

RICE Operating Company (ROC) 112 West Taylor Hobbs, NM 88240

112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

EME M-10 (1R427-118) UL/M, Section 10, T21S, R36E



Facing north

7/3/2013



Facing east

7/3/2013