1R-427-18

APPROVALS

YEAR(S): 2013

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD

Sent: Thursday, January 17, 2013 12:44 PM

To: Hack Conder (hconder@riceswd.com)

Cc: Leking, Geoffrey R, EMNRD; Laura Pena (lpena@riceswd.com); Katie Jones

<kjones@riceswd.com> (kjones@riceswd.com); Scott Curtis (scurtis@riceswd.com)

Subject: Remediation Plan (1R427-18) Termination - ROC EME A-8 Boot Site

RE: Termination Request

for the Rice Operating Company's

EME A-8 Boot Site

Unit Letter A, Section 8, T21S, R36E, NMPM, Lea County, New Mexico

Remediation Plan (1R427-18) Termination

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated January 11, 2013 (received January 15, 2013). The report is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R427-18) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen Hydrologist Environmental Bureau

RICE Operating Company

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

CERTIFIED MAIL
RETURN RECEIPT NO. 7007 2560 0000 4569 8746

January 11, 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 RECEIVED

JAN 15 2013

Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, NM 87505

RE: Termination Request

EME A-8 boot (1R427-18): UL/A Sec. 8, T21S, 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 2003, ROC initiated work on the former A-8 boot junction box. The site is located in UL/A, Sec. 8, T21S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 200 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 30x30x11 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, the excavation walls, and the remediated backfill were sent to a commercial laboratory for analysis of chloride and TPH, resulting in a sidewall chloride concentration of 70.9 mg/kg, a gasoline range organics (GRO) concentration of 26.9 mg/kg and a diesel range organics (DRO) concentration of 495 mg/kg. The bottom composite resulted in chloride concentrations of 585 mg/kg, a GRO concentration of 78.6 mg/kg and a DRO concentration of 767 mg/kg. The remediated backfill resulted in a chloride concentration of 336 mg/kg, a GRO concentration below detectable limits, and a DRO concentration of 144 mg/kg. The remediated backfill sample was also analyzed for BTEX, resulting in a benzene concentration, ethyl benzene concentration and total xylenes concentration below detectable limits and a toluene concentration of 0.007 mg/kg. The remediated backfill was returned to the excavation to ground surface and contoured to the surrounding area. On 10/15/2003, 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 site location map, final report, photo documentation, laboratory analysis and current site photo 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) 393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

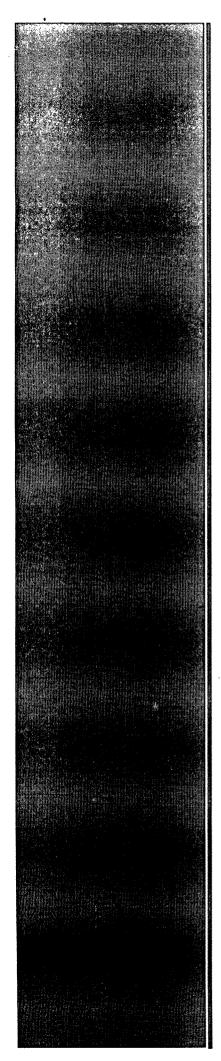
Sincerely,

RICE Operating Company

Hack Conder

Environmental Manager

enclosures



Site Location Map

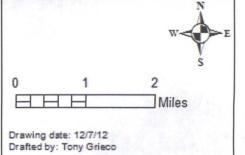
RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

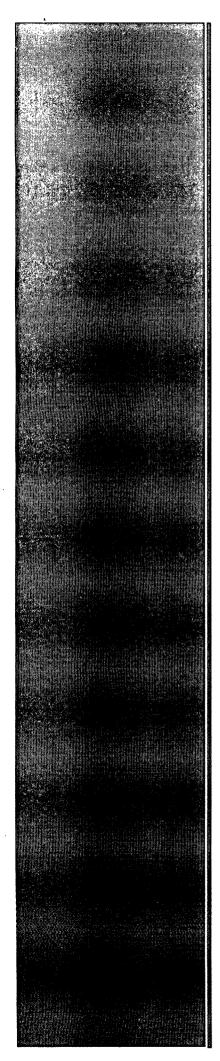
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EME A-8 BOOT

UL A SECTION 8 T-21-S R-36-E LEA COUNTY, NM





Junction Box Report

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

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

BOX LOCATION

		· · · · · · · · · · · · · · · · · · ·		BOX FOC			T 22.7.			
SWD SYSTEM	JUNCTION	UNIT	SECTIO	N TOWNSHIP	RANGE	COUNTY		DIMENSIONS		
EME	A-8 boot	Α	8	218	36E	Lea	Length	Width	Depth	
L			<u> </u>			<u> </u>	<u></u>	noved 60 ft w	est	
LAND TYPE: E	BLM	STATE	X_FEE	LANDOWNER			OTHER		<u></u>	
Depth to Groun	ndwater	200	feet	NMOCE	SITE ASSI	ESSMENT	RANKING S	SCORE:	0	
Date Started	9/2/2	2003	Date	Completed	9/25/2003	OCD	Witness		No	· · · · · · · · · · · · · · · · · · ·
Soil Excavated	367	cubic ya	rds l	Excavation Le	ength 30	Width	30	Depth	11	feet
Soil Disposed	0	cubic ya	rds	Offsite Facility	/n	/a	Location		n/a	·
FINAL ANALY	TICAL R	RESULTS	S: San	nple Date	9/4/20	003	Sample D	epth	11 ft b	gs
	•	hloride labo	oratory te	of bottom and est results com es pursuant to	pleted by us	sing an app	•		•	
Sample	Benzene	Tok	uene	Ethyl Benzene	Total Xyler		RO	DRO	1 —	ride
Location	mg/kg <0.005	mg O (g/kg 007	mg/kg	mg/kg		g/kg	mg/kg	mg	
REMEDIATED SIDEWALLS	\0.005	0.0	907 PID =	<0.005	<0.015		6.9	144 495	33	.9
BOTTOM			PID =		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 		8.6	767	_1	35
Seneral Description Iterally with a backhoon Itervals. Chloride cor	e while chlorid	e tests and PI	D reading:	s were performed	l at regular		OCATION	DEPTH		
								 		ppm 1113
ere well below NMO(-			ertical @ jct.	8		
ken for closure from						nded		 		664
t the location and the							 	9		834
e-seeded with native	vegetation on	10/15/2003 ar	nd will be r	nonitored for grov	wth.	_		10		685
		· · · · · · · · · · · · · · · · · · ·				-		11		577
			*					12		565
			·	,				13		434
						<u> </u>		14		367
							-wall comp.	n/a		381
c: lab results, chloride	graph, photo	s, PID reading	gs			re	med. comp.	n/a	<u> </u>	374
I HEREB	Y CERTIFY	THAT THE		MATION ABO\ NOWLEDGE			PLETE TO	THE BEST	OF MY	
ATE		/26/2003			RINTED NAME		Kri	stin Farris		
IGNATURE	Knisin	Jane	,)					ect Scientist		
						·				

EME A-8 Boot



Undisturbed Box & Boot Before NORM Removal (2/18/2003)



30 x 30 x 11-ft-deep Excavation (Sept. 2003)



New Junction Box in Foreground, Moved 60 ft West (Aug. 2003)



Seeding Disturbed Surface (10/15/2003)

ANALYTICAL REPORT

Prepared for:

Kristin Farris Rice Operating 122 W. Taylor Hobbs, NM 88240

Project:

EME A-8

PO#:

Order#:

G0307402

Report Date:

09/09/2003

Certificates

US EPA Laboratory Code TX00158

SAMPLE WORK LIST

Rice Operating

505-397-1471

122 W. Taylor Hobbs, NM 88240 Order#:

G0307402

Project:

Project Name: EME A-8

Location:

None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID: 0307402-01	Sample: Bottom Composite	Matrix: SOIL	Date / Time Collected 9/4/03 14:45	Pate / Time Received 9/8/03 8:00	Container 4 oz glass	<u>Preservative</u>
<u>La</u>	b Testing: 8015M Chloride	Rejected: No	Ter	np: 9.0 C		·
0307402-02 <u>La</u>	4 Wall Composite b Testing:	SOIL Rejected: No	9/4/03 15:35 Tea	9/8/03 8:00 mp: 9.0 C	4 oz giass	ice
	8015M Chloride					

ANALYTICAL REPORT

Kristin Farris Rice Operating 122 W. Taylor Hobbs, NM 88240

Order#:

G0307402

Project:

Project Name:

EME A-8

Location:

None Given

Lab ID:

0307402-01

Sample ID:

Bottom Composite

Test Parameters

Parameter

Chloride

Dilution
Units Factor

Dilution Factor RL 20

Method 9253 Date
Analyzed Analyst
9/9/03 SB

Lab ID:

0307402-02

Sample ID:

4 Wall Composite

Test Parameters

Parameter

Chloride

Result 70.9

Result

585

Units .

mg/kg

Dilution
Factor I

<u>RL</u> 20 Method 9253 Date Analyzed

9/9/03

Analyst SB

Approval

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS I, LTD.

ANALYTICAL REPORT

Kristin Farris Rice Operating 122 W. Taylor Hobbs, NM 88240

Order#:

G0307402

Project:

Project Name:

EME A-8

Location:

None Given

Lab ID:

0307402-01

Sample ID:

Bottom Composite .

8015M

Method Blank

Date

Sample

Dilution

Analyst

Method

Prepared

Date

Analyzed 9/8/03

Amount 1

Factor 1

CK 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	26.9	-10.0
DRO, >C12-C35	495	10.0
TOTAL, C6-C35	522	10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	104%	70	130
1-Chlorooctadecane	127%	70	130

Lab ID:

. 0307402-02

Sample ID:

4 Wall Composite

8015M

Method Blank

Date **Prepared** Date

Sample

Dilution

Method

Analyzed 9/8/03

Amount 1

Factor 1

Analyst \mathbf{CK} 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	78.6	10.0
DRO, >C12-C35	767	10.0
TOTAL, C6-C35	846	10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	117%	70	130
1-Chlorooctadecane	129%	70	130

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

QUALITY CONTROL REPORT

8015M

Order#: G0307402

BLANK SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006731-02			<25.0		
CONTROL SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006731-03		952	. 1051	110.4%	
CONTROL DUP SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006731-04		952	1026	107.8%	2.4%
SRM SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006731-05		1000	1032	103.2%	

QUALITY CONTROL REPORT

Test Parameters

Order#: G0307402

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0006732-01			<20.0		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307402-01	585	500	1064	95.8%	· · · · · · · · ·
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307402-01	585	500	1080	99.%	1.5%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0006732-04		5000	4960	99.2%	

Environmental Lab of Texas, Inc.

12600 West I-20 East Odessa, Texas 79763 Phone: 915-563-1800 Fax: 915-563-1713 CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Ma	inager: Kris	stin Fo	uris_					~					,	Pro	ject.	Name	<u>ئ</u> ے نا		M	7 <u>Z</u>	ر -	1-8	3_			
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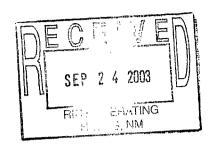
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: KRISTIN FARRIS 122 W. TAYLOR

HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 09/19/03
Reporting Date: 09/22/03
Project Number: NOT GIVEN
Project Name: EME A-8

Project Location: LEA CO., NM



Sampling Date: 09/18/03 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH Analyzed By: BC/AH

	GRO	DRO	
	(C_6-C_{10})	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS DATE	09/19/03	09/19/03	09/22/03
H8019-1 STOCKPILE COMPOSITE	<10.0	144	336
			:
Quality Control	734	838	980
True Value QC	800	. 800	1000
% Recovery	91.8	105	98.0
Relative Percent Difference	0.6	7.5	2.0

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

Chemist

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. 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.



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

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

Receiving Date: 09/19/03

Reporting Date: 09/22/03

Project Number: NOT GIVEN

Project Name: EME A-8

Lab no.

Project Location: LEA CO., NM

SAMPLE ID

Sampling Date: 09/18/03

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC/AH

		ETHYL	TOTAL
BENZENE	TOLUENE	BENZENE	XYLENES
(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
00/10/03	00/10/03	00/10/03	09/19/03

ANALYSIS DATE	09/19/03	09/19/03	09/19/03	09/19/03		
H8019-1 STOCKPILE COMPOSITE	<0.005	0.007	<0.005	<0.015		
		<u> </u>				
/						
Quality Control	0.097	0.096	0.094	0.279		
True Value QC	0.100	0.100	0.100	0.300		
% Recovery	96.6	96.1	93.6	92.9		
Relative Percent Difference	0.8	5.8	6.0	5.7		

METHOD: EPA SW-846 8260

Chemist Har Coth

Date

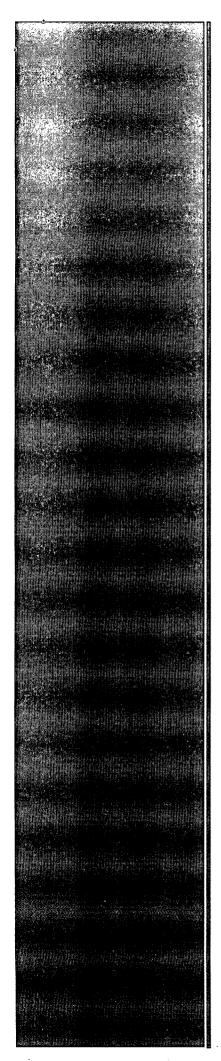
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 86240

(919) 613-7001 Fax (919) 613-7020 (309) 393-2926 Fax						((303) 393-2410					· · · · · · · · · · · · · · · · · · ·															
Company Name: RICE Operating Company					BILLYO						ANALYSIS REQUEST															
Project Manager: Kristin Faccis					P.C) <i> </i> };																				
Address: 122 W. Taylor						Company: RICE						ĺ														
City: Habbs, State: NM Zip: 88940							Attn:							1									. 1			
Phone #: 393-9174 Fax #: 397-1471							Address:								· E	•			·							
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PLEASE NOTE: Unbidgy and Demograe. Cardware liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the Terms and Conditions: liabelet will be charged on all accounts more than sawyees. All cleims including those for negligence and any other cause whathorower shall be deemed without arises made in writing and received by Cardwal white's 30 days past due at the case of 24% per arrant from the original date of invites, sando. In no event shall Cardwal be liable for incidental or consequental desirage, including without initiation, business historypitons, loss of use, or loss of profits. Leavest the case of profits the status of the status of the status of the status of the status. Terms and Conditions: liables will be charged on all accounts will be accounted by the charged on all accounts will be charged on all account																										
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Reilinquished By: Date: Received By: (Lab Staff) Time: Sample Condition Codi Intact							U	1/					Fi k	<	C Oji	gy :	<i>*</i> *6	PC (ee							
Sampler - UPS - Bus - Other: Yes Yes No No No											and the second second		i .	·												

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



Current Photodocumentation

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

EME A-8 Boot (1R427-18) Unit Letter A, Section 8, T215, R36E



Facing South

1/8/2013



Facing North

1/8/2013