1R-427-116

APPROVALS

YEAR(S): 2013

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD

Sent: Thursday, May 16, 2013 9:42 AM

To: Hack Conder (hconder@riceswd.com)

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

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

Subject: Remediation Plan (1R427-116) Termination - ROC EME E-12 Site

RE: Termination Request

for the Rice Operating Company's

EME E-12 Site

Unit Letter E, Section 12, T20S, R36E, NMPM, Lea County, New Mexico

Remediation Plan (1R427-116) 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 April 26, 2013 (received May 3, 2013). The reports are 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 (1R427-116) 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 9224

April 26, 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

MAY 3 2013

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

RE: Termination Request

EME E-12 (1R427-116): UL/E Sec. 12, 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 2001, ROC initiated work on the former E-12 junction box. The site is located in UL/E, Sec. 12, T20S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 28 +/- feet. To investigate the depth of chloride presence, a soil bore was installed on November 14, 2001 to a total depth of 25 ft below ground surface (bgs). Samples were collected every 5 ft and field titrated for chlorides, resulting in low concentrations. The 20 ft sample was sent to a commercial laboratory for analysis, resulting in a chloride concentration of 35 mg/kg, a DRO concentration of 17 mg/kg, and GRO and BTEX concentrations below detectable limits.

The site was then excavated to dimension of 25x15x8 ft deep. Representative composite samples of the excavation bottom and the excavation walls were sent to a commercial for analysis of chloride and TPH, resulting in a sidewall chloride concentration of 864 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bottom composite resulted in a chloride concentration of 1,376 mg/kg and concentrations of GRO and DRO below detectable limits. Both samples were analyzed for BTEX, resulting in concentrations below detectable limits throughout. A compacted clay layer was installed and will provide a barrier that will inhibit the

downward migration of chlorides to groundwater. The excavation was backfilled with blended soil and a new, watertight junction was installed over the site. Seeding is not required.

This site is located within the regionally impacted groundwater plume in an area with groundwater chloride concentrations between 5,000 - 10,000 mg/l (see Site Location Map).

The junction box site location map, final report, laboratory analysis, and current photodocumentation 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,

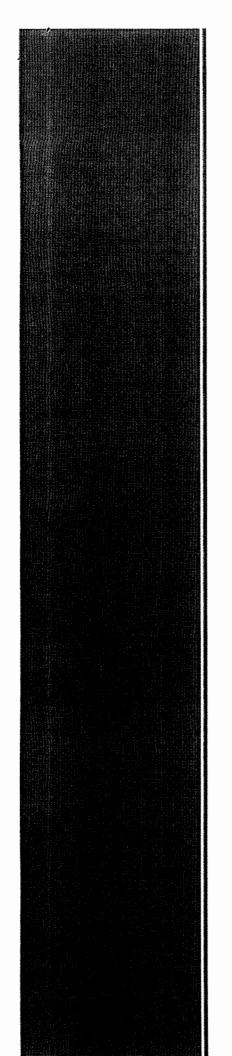
RICE Operating Company

Hack Conder

Environmental Manager

enclosures

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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 E-12 (1R427-116)

Unit Letter E, Section 1 T20S, R36E Lea County, NM



Drawing date: 4/9/13 Drafted by: LS

Area Map





EIVIE

E-12

UL/E SECTION 12

T-20-S R-36-E

LEA COUNTY, NM

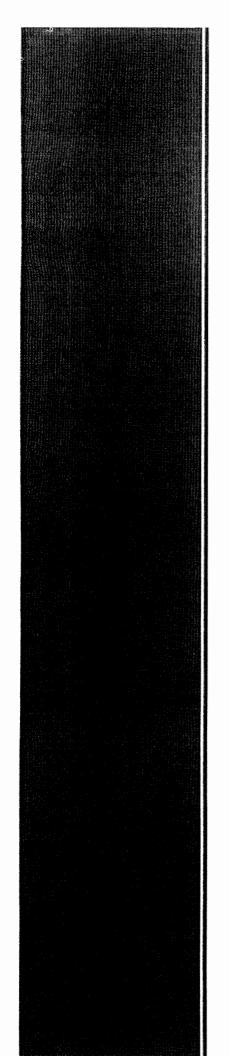
NMOCD CASE #: 1R427-116

0 500 1,000

HHH Feet

Drawing date 4/25/13

Drafted by: T. Grieco



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

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	IMENSIONS -	FEET
EME	E-12	E	12	208	36E	LEA	Length 10	Width 10	Depth 6
LAND TYPE: B		STATE	FEFI	ANDOWNER		RYRD	OTHER	<u></u>	
Depth to Groun	4								20
		•							
Date Started	10/26	/2001	Date Co	mpietea	11/2//2001	OCD	vithess	N	
Soil Excavated	90	cubic ya	rds Ex	cavation Le	ngth 25	Width	15	Depth	8 feet
Soil Disposed	0	cubic ya	rds O	ffsite Facility	Marian Company of the		Location	andreg to a supplemental specification and	والمراجعة
INAL ANALY	TICAL R	ESULTS	S: Samp	le Date	11/27/2	2001	Sample De	pth	8'
Pr	ocure 5-poi	nt composit	e sample o	f bottom and	4-point con	nposite sam	ple of sidew	alls. TPH,	
		Chloride lab	oratory tes	t results com	pleted by us	sing an appr			
			procedure	s pursuant to	NMOCD g	uidelines.			
Sample	Benzene	Tol	uene [Ethyl Benzene	Total Xyler	es G	RO	DRO	Chlorides
Location	mg/kg		g/kg	mg/kg	mg/kg		g/kg	mg/kg	mg/kg
SIDEWALLS	< 0.050		.050	< 0.050	<0.015		50	<50	864
BOTTOM Boring @ 20'	< 0.050 <0.025	1	.050 026	< 0.050 < 0.025	<0.015 <0.025		50 10	<50 17	1376 35
Seneral Description				and found chloric	· · · · · · · · · · · · · · · · · · ·	-	CHLOF	RIDE FIELD	TESTS
000 ppm. A soil borin	··					— г.	COATION	DEDTIL	
topped before reaching the junction box was e							OCATION DEWALLS	DEPTH 6'	mg/kg 220
nstalled and backfilled.					************		BOTTOM	8,	1350
ertical transmissivity o					····		ertical trench	11'	1070
olended below NMOCE) guidelines ar	nd used as ba	ckfill.				Soil Boring	5'	50
		···			·····			10'	50
								15'	50
								20'	50
								25'	50
									
I HEREB	Y CERTIFY	THAT THE		ATION ABOV			PLETE TO	THE BEST C	OF MY
DATE	Decen	nber 6, 200	1	PF	RINTED NAME		D. E.	Anderson	
SIGNATURE /	Ma	SULAO.	٢	·	TITL!	<u> </u>	Project Lead	er - Environn	nental
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2904				ngineering ates, Inc. swell, NM 88202-3156		LOG	OF BO	RING Ric	e E1	2 (Page 1
		1 obbs	22 We	erating Co. est Taylor Mexico 88240 annie Anderson	Date Drill Start Drill End	: 11-14-01 :	-	Site Location Auger Type Logged By	1	: Monument, NM : Air drill : Mort Bates
		Job#		EENV.JAL.01	Boring Location	: Edge of pit	T			
Depth in Feet	GRAPHIC	nscs	Samples CI	DES	SCRIPTION		Lab	W	/ell: E12	
0 -	·(+);(SP		Poorly graded sand, tan,	loose, dry					
5-		SP	50	Poorly graded sand w/ ca	aliche, tan, firm, dry				X -	Drill cutting bac
-				Poorly graded sand, tan,	loose, dry					
10 -		SP	5 ^D				7 pił 29 ppm			
-				Poorly graded sand w/ b	roken sandstone, ta	n, dry	-			
15 -		SP	SU							Bentonite Seal
20 -			-50	Sandstone, tan, firm, dry						
C:MTECH46/RICEJAL/e12.bor		SS	50							



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

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ 122 W. TAYLOR

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

Receiving Date: 11/27/01 Reporting Date: 11/28/01

Project Number: E-12

Project Name: E-12 BOX UPGRADE

Project Location: EME

Sampling Date: NOT GIVEN

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: BC/HM

•	•			GRO (CC)	DRO (>C ₁₀ -C ₂₈)	Ci*
LAB NUMBE	ER SAMPI	LE ID		(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS	DATE	11/27/01	11/27/01	11/27/01
H6298-1	E-12 WALL COMPOSITE	<50	<50	864
H6298-2	E-12 BOTTOM COMPOSITE	<50	<50	1376
Quality Con	trol.	779	806	1050
True Value	QC	800	800	1000
% Recovery	1	97.3	101	105
Relative Pe	rcent Difference	1.2	3.3	5.0

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



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

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: CHRIS RODRIGUEZ

122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 11/27/01 Reporting Date: 11/28/01

Project Number: E-12

Project Name: E-12 BOX UPGRADE

Project Location: EME

Sampling Date: NOT GIVEN

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: BC

LAB NO. SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	11/27/01	11/27/01	11/27/01	11/27/01
H6298-1 E-12 WALL COMPOSITE	<0.005	<0.005	<0.005	<0.015
H6298-2 E-12 BOTTOM COMPOSITE	<0.005	<0.005	<0.005	<0.015
Quality Control	0.110	0,106	0,109	0.319
True Value QC	0.100	0.100	0.100	0.300
% Recovery	110	108	109	108
Relative Percent Difference	0.5	3.6	1.6	1.9

METHOD: EPA SW-846 8260

Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

5

Page

2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobbs, NM 88240 (915) 673-7001 Fax (815) 673-7020 (505) 393-2326 Fax (506) 393-2476

Company Name: Rice	C. Obet still Company	AAY	18		2000		۷	NALYS	IS REC	ANALYSIS REQUEST		
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Phone # 393-91	74 FEET 397-	\	Acidross:		·	;						
Project #: 5-12	Project Owner:		C#y:			,						·
Project Name: E-/2	Box Upgrade		State:	Zlp:		-		_			·-	
Project Locations 5.77 &			Phone #:			P'						
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[†] Cardinal caunot accept verbal changes. Please fax written changes to 505-393-2476.

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING COMPANY ATTN: DONNIE ANDERSON 122 W TAYLOR

HOBBS, NM 88240 FAX: 505-397-1471

Sample Type: Soil

Sample Condition: Intact/ Iced/ 4 deg C Project Name: EME Junction Box Upgrade

Project #: E-12

Project Location: Lea County, NM

PO#: 716

Sampling Date: 11/14/01 Receiving Date: 11/15/01 Analysis Date: 11/16/01

ELT#	FIELD CODE	Chloride mg/kg
0102026-01	20' Boring	35

QUALITY CONTROL	5050
TRUE VALUE	5000
% INSTRUMENT ACCURACY	101
SPIKED AMOUNT	625
ORIGINAL SAMPLE	22
SPIKE	654
SPIKE DUP	654
% EXTRACTION ACCURACY	101
BLANK	<5.00
RPD	0.0

Methods: SW 846-9253

Kalan df Jun Raland K. Tuttle

11-19-01 Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

FIELD CODE

20' Boring

E.T.G.I.

ATTN: KEN DUTTON 2540 WEST MARLAND HOBBS, NM 88240 FAX: 505-397-4701

Sample Type: Soil

Sample Condition: Intact/ Iced/ 4 deg C Project Name: EME Junction Box Upgrade

Project #: E-12

Project Location: Lea County, NM

PO#: 716

0102026-01

ELT#

Sampling Date: 11/14/01 Receiving Date: 11/15/01 Analysis Date: 11/16/01

BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	
<0.025	0.026	<0.025	<0.025	<0,025	

QUALITY CONTROL	0.105	0.105	0.104	0.207	0.101
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	105	105	104	104	101
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.102	0.101	0.106	0.215	0.104
SPIKE DUP	0.103	0.102	0.106	0.216	0.104
% EXTRACTION ACCURACY	102	101	106	108	104
BLANK	<0.025	<0.025	<0.025	< 0.025	<0.025
RPD	0.98	0.98	0.00	0.00	0.00

METHODS: EPA SW 846-8021B ,5030

Kaluatju

11-19-0/

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING COMPANY ATTN: DONNIE ANDERSON 122 W TAYLOR

HOBBS, NM 88240 FAX: 505-397-1471

Sample Type: Soil

Sample Condition: Intact/ Iced/ 4 deg C Project Name: EME Junction Box Upgrade

Project #: E-12

Project Location: Lea County, NM

PO#: 716

Sampling Date: 11/14/01 Receiving Date: 11/15/01 Analysis Date: 11/16/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
0102026-01	20' Boring	<10	17	

QUALITY CONTROL	458	519
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	92	104
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	47
SPIKE	494	564
SPIKE DUP	486	550
% EXTRACTION ACCURACY	102	106
BLANK	<10	<10
RPD	1.63	2.51

Methods: SW 846-8015M

(al dk)

1/-19-01 Date

Environmental Lab of Texas, Inc.

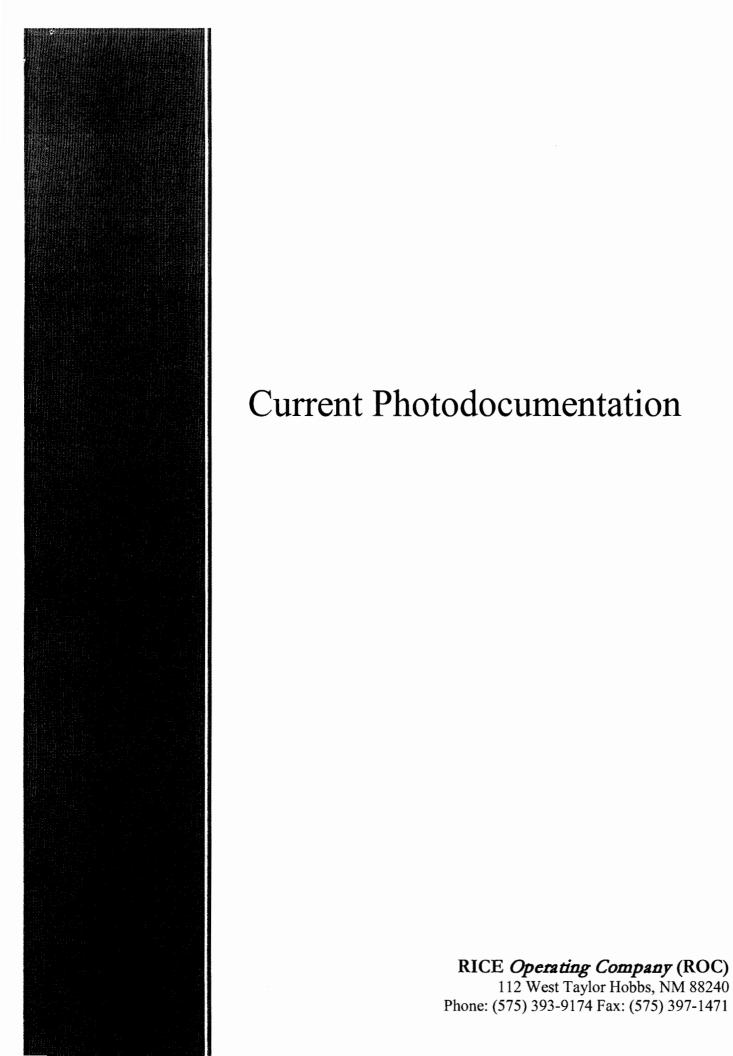
12600 West I-20 East Odessa, Texas 79763

Phone: 915-563-1800 Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: EME JUNCTION BOX UPGRADE Lea County NM E-12 716 Project #: Project Loc: PO #: Fax No: 505-397-1471 company Name Rice Operating Company City/State/Zip: Hobbs, NM 88240 Project Manager: Donnie Anderson Telephone No: 505-393-9174 Company Address: 122 W Taylor Sampler Signature:

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EME E-12 (1R427-116) UL/E, Section 12, T20S, R36E



3/20/2013 Facing north



Facing west 3/20/2013