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REPORTS

DATE: 8-9-13 10-15-13

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 9361

August 9, 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-3-2 (1R427-101): UL/M, Sec. 3, T21S, R36E RICE Operating Company – Eunice Monument Eumont (EME) 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 and Previous Work

In 2001, ROC initiated work on the former M-3-2 junction box. The site is located in UL M, Sec. 3, T21S, R36E. An updated study of NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 140 +/- feet. The site was delineated using a backhoe to form a 42x15x7.5-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. Each sample was field titrated for chlorides, resulting in low concentrations. Field analysis of the sidewall composite sample resulted in a chloride concentration of 600 mg/kg and TPH concentrations below detectable limits. A representative composite sample of the bottom was submitted to a commercial laboratory to be analyzed for chloride, TPH, and BTEX, resulting in a chloride concentration of 443 mg/kg and concentrations of gasoline range organics (GRO), diesel range organics (DRO) and BTEX 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 72 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, no seeding is required.

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The junction box site maps, final report, laboratory analysis, disposal manifests 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)393-2967 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

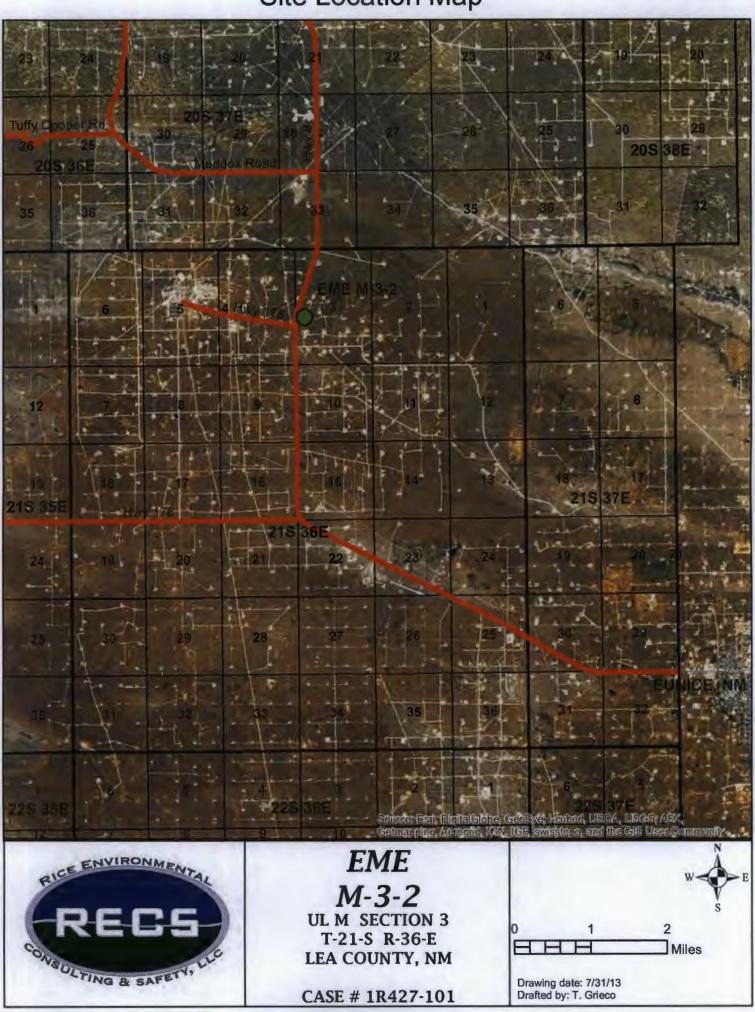
enclosures

Site Maps

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

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

Site Location Map



Area Map



Junction Box Report

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

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

927-101

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

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				BOX LOC	ATION					_
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX	DIMENSIONS	- FEET	
EME	M-3-2	м	3	218	36E	LEA	Length 17	Width 10	Depth 4	
LAND TYPE: E								8 SCORE:		
Date Started	08/10/	2001	Date C	ompleted	08/10/2001		Witness	N	10	
Soil Excavated	175	cubic yar	ds E:	xcavation Le	ngth <u>42</u>	Width	15	Depth	7.5	feet
Soil Disposed	72	cubic yar	ds C	Offsite Facility	Sundance/So	uth Monumen	Location	Eunice/N	fonument, N	<u>M</u>
FINAL ANALY		ESULTS	: Samp	ole Date	08/10/2	001	Sample D	epth	7.5'	
P	Procure 5-poin BTEX and C	hloride lab	oratory tes	of bottom and st results com is pursuant to	pleted by us	ing an appro				
Sample	Benzene	Tolu	iene I	Ethyl Benzene	Total Xylen	es G	RO	DRO	Chloride	es 🛛

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							
BOTTOM	<0.025	< 0.025	<0.025	<0.025	<10	<10	443

General Description of Remedial Action:	The site was delineated vertically and laterally CHLORIDE FIELD TESTS							
to below NMOCD guidelines. Composite samples	were taken on the walls and the bottom. Wall							
sample was misplaced, therefore no lab results an	given. Field tests on the walls at 6.5' were 600	LOCATION	DEPTH	mg/kg				
ppm chlorides and < 10 ppm TPH. A compacted of	day liner and water proof junction box were	SIDEWALLS	6.5'	600				
installed and backfilled.		BOTTOM	7.5	400				
·								
	· · · · · · · · · · · · · · · · · · ·							

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE	November 30, 2001		D. E. Anderson
SIGNATURE	I andreson	TITLE	Project Leader - Environmental

ENVIRONMENTAL LAB OF , INC.

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"Don't Treat Your Soil Like Dirt!"

RICE OPERATING CO. ATTN: MR. CHRIS RODRIGUEZ 122 WEST TAYLOR HOBBS, NM 88240 FAX: 505-397-1471 FAX: 366-0804 (RE Environmental)

Sample Type: Soil Sample Condition: Intact/ 23.5 deg C/ Plastic Bags Project #: None Given Project Name: None Given Project Location: M-3-2 Sampling Date: 08/10/01 Receiving Date: 08/13/01 Analysis Date: 08/13/01

ELT#	FIELD CODE	TPH mg/kg	Chloride mg/kg	
0101332-01	Composite @ 7.5'	. 83.5	443	

5140
5000
103
714
443
1220
1190
105
< 5.00
2.49

Methods: SW 846-9253, EPA 418.1

Raland K.

15-61 Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING ATTN: MR. CHRIS RODRIGUEZ 122 WEST TAYLOR HOBBS, NM 88240 FAX: 505-397-4701

Sample Type: Soil Sample Condition: Intact/ 23.5 deg C/ Plastic Bag Project #: None Given Project Name: None Given Project Location: M-3-2

Receiving Date: 08/13/01 Analysis Date: * 09/05/01

Sampling Date: 08/10/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
0101332-01	Composite @ 7.5'	<10	<10	-

QUALITY CONTROL TRUE VALUE % INSTRUMENT ACCURACY	527 500 105	519 500 104
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	491	514
SPIKE DUP	450	483
% EXTRACTION ACCURACY	94	101
BLANK	<10	<10
RPD	9	6

*NOTE: Sample analyzed beyond 14 day holding time.

Methods: SW 846-8015M

6-01

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ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

RICE OPERATING CO. ATTN: MR. CHEIS RODRIBUEZ 122 WEST TAYLOR HOBSS, NM 88240 FAX: 505-397-1471 FAX: 366-0304 (RE Environmental)

Sample Type: Soil Sample Condition: Intact/ 23.5 deg C/ Plastic Bags Project #: None Given Project Name: None Given Project Location: M-3-2 Sampling Cata: 08/10/01 Acceiving Date: 08/13/01 Analysis Date: 08/13/01

		BENZENE	TOLJENE	ETHYLSEN ZENE	m.p-XYLENE	O-XILENE	
ELT#	FIELD CODE	mg/kg	mg/kg	m:g/kg	mg/kç	mg/kg	
0101332-01	Composite @ 7.5	<0.025	<0.025	<0.025	<c 025<="" td=""><td><0.025</td><td></td></c>	<0.025	
	·						

QUALITY CONTROL	0.100	0.104	0.105	0.215	0.105
TRUE VALUE	0.100	0.100	0,100	0,200	0,100
% INSTRUMENT ACCURACY	102	104	105	108	100
SPIKED AMOUNT	0.10C	0.100	0.100	0.200	0.160
ORIGINAL SAMPLE	-<0.025	0.052	<0.025	<0.025	<0 ປີ25
SPIKE	0,095	0.097	0.098	G.197	0.095
SFIKE DUP	C.090	0.091	0.093	G.188	3.297
% EXTRACTION ACCURACY	95	97	98	99	99
BLANK	< 0.025	<c.025< td=""><td><0.025</td><td><0.025</td><td><c.025< td=""></c.025<></td></c.025<>	<0.025	<0.025	<c.025< td=""></c.025<>
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METHODS: 3PA SW 346-80216 ,5030

Raiand K. Tuttia

<u>7-15-01</u> Date

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Company Address:			2										•••••		Р	rojec	a Lo	u:		N	1 -	3-	2					
City/State/Zip:													****				PO	#:										
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Sampler Signature																				_							7	
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4 (láb sina only)	FIELD C	ODE		Date Samplet	Time Sampled	No. of Containers	łce		Ę	NaCH NSCH	None	Omar (Spacify)	Watar	Studge	Cliner (specify)	TDS (CL) SAR I EC	1 8.7 Hd1	TPH TX 10/05/1006	TPH 6015MI GRONDEC		Semwclaßles	BTEX 20218/5030					RUSH TAT (Pre-Schedule	Standord TAT
101332-01 Cc.	-posite E	3 7.5	5 /	8-10-01	1030	1L				_	\square		_	-1-	1	K	\checkmark	_	-	1	ļ	1		_			\perp	\downarrow
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SOUTH MONUMENT SURFACE WASTE FACILITY

TICKET NO # 4444

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LEASE OPERATOR	ORIGINATING LOCATION: EME CHE K-SG M
Rice Operating Company	ORIGINATING LOCATION: EME SWD R-5 3 M S33 T195 R37E NE/4 SW/4
TRANSPORTER NAME & ADDRESS	
ALTON CONSTRUCTION CO., INC. 0. JOX 478	
ICEBS, NM 88241-0478	
DESCRIPTION OF WASTE	QUANTITY
Ion-Hazardous Hydrocarbons	12yds
A A A A A CONTACT:	5/25/01
IGNATURE OF CONTACT U	DATE
ELL NUMBER MATERIAL WAS PLACE	IN LANDFARM: <u></u> D-1
AME OF TRANSPORTER (DRIVER):	
Juny Wed	5135101
GNATURE OF DRIVER	DATE
ISPOSAL SITE	
uth Monument Surface Waste Facility	· ·
0. Bcx 418	

Ecbbs, NM 88241-0418 Sec 24 T205 RJ6E1/4

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

FACT LITY REPRESENTATIVE

S 125/CI

SOUTH MONUMENT SURFACE WASTE FACILITY

TICKET NO # 4445

5

ORIGINATING LOCATION: EME SWD R-33 M.3-2 LEASE OPERATOR S33 T195 R37E NE/4 SW/4 Afe #G' Rice Operating Company TRANSPORTER NAME & ADDRESS WALTON CONSTRUCTION CO., INC. P. O. BOX 478 HCBBS, NM 88241-0478 Attn: KENA KAY COOPER DESCRIPTION OF WASTE QUANTITY Non-Hazardous Hydrocarbons FACILITY CONTACE: SIGNATURE OF CONTACT CELL NUMBER MATERIAL WAS PLACE IN LANDFARM: _____ NAME OF, TRANSPORTER (DRIVER): SIGNATURE OF DR DISPOSAL SITE

South Monument Surface Waste Facility P. O. Box 418 Ecbbs, NM 88241-0418 Sec 24 T205 R36E1/4

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Resource Conservation and Recovery Act (RCRA) Subtitle C regulations; and not mixed with non-exempt waste."

DATE

5	Sundance Services, I P.O. Box 1737 * Eunice, NM 8823 (505) 394-2511		41838
LEASE OPERATOR/SHIPPER	R/COMPANY:		
LEASE NAME:			
TRANSPORTER COMPANY:	The Area of the	TIME:	AM/PN
DATE: VE	HICLE NO.:	DRIVER NO .:	
CHARGE TO:			
	TYPE OF MATERIAL	5167	
[] Production Water [] Tank Bottoms [] Other Material: Description:	[] Drilling Fluids [] Contaminated soil [] BS&W Content:	[] Completion Fluid [] C-117 No.:	s c.t.
		<u></u>	
AS A CONDITION TO SUNDANCE S JOB TICKET, OPERATOR/SHIPPER RE HEREWITH IS MATERIAL EXEMPT FI AMENDED FROM TIME TO TIME, 40 AND REGULATIONS RELATED THERE PRODUCED WATERS, AND OTHER W PRODUCTION OF CRUDE OIL OR NAT ALSO AS A CONDITION TO SUNDA THIS JOB TICKET, TRANSPORTER RE OPERATOR/SHIPPER TO TRANSPORT FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the all	BLS: [YAR ERVICES, INC.'S ACCEPTANCE OF TH PRESENTS AND WARRANTS THAT TH ROM THE RESOURCE, CONSERVATION U.S.C. § 6901, et seq., THE NM HEALT ETO, BY VIRTUE OF THE EXEMPTION VASTE ASSOCIATED WITH THE EXPLO TURAL GAS OR GEOTHERMAL ENERG NCE SERVICES, INC.'S ACCEPTANCE PRESENTS AND WARRANTS THAT ON ER IS NOW DELIVERED BY TRANSPO	THE MATERIALS SHIPPED HE WASTE MATERIAL SH N AND RECOVERY ACT H AND SAF. CODE § 361 AFFORDED DRILLING H RATION, DEVELOPMEN BY. OF THE MATERIALS SHI ILY THE MATERIAL DEL RTER TO SUNDANCE SE al represented by this	WITH THIS HIPPED OF 1976, AS .001, et seq., FLUIDS, I OR PPED WITH IVERED BY RVICES; INC.'S Transporter
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DATE: En I	/EHICLE NO.: /	DRIV	ER NO.:	
CHARGE TO:				
·	TYPE OF MATE	RIAL		
 [] Production Water [] Tank Bottoms [] Other Material: Description:	[] Drilling Fluids [] Contaminated soil [] BS&W Content:	[] []	Completion F C-117 No.:	-luids
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ALSO AS A CONDITION TO SUN THIS JOB TICKET, TRANSPORTER OPERATOR/SHIPPER TO TRANSPO FACILITY FOR DISPOSAL.	REPRESENTS AND WARRANTS	THAT ONLY TH	E MATERIAL	DELIVERED BY
THIS WILL CERTIFY that the Statement at the above describe will certify that no additional m	d location, and that it was te	endered by the	above descri	bed shipper. Thi
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	Sundance Services P.O. Box 1737 * Eunice, NM (505) 394-2511	· .	41819
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THIS JOB TICKET, TRANSPORTER OPERATOR/SHIPPER TO TRANSPO FACILITY FOR DISPOSAL. THIS WILL CERTIFY that the Statement at the above describe will certify that no additional n without incident. ORIVER:	REPRESENTS AND WARRANTS THA REPRESENTS NOW DELIVERED BY TRAIN Representation and the second second second second representation and that it was tended the second second second second second representation and that it was tended the second second second second second second second second representation and that it was tended the second	NCE OF THE MATERIALS SI T ONLY THE MATERIAL DI SPORTER TO SUNDANCE S aterial represented by thi red by the above describe	ELIVERED BY ERVICES, INC.' s Transporter d shipper. Thi

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	Sundance Services, P.O. Box 1737 * Eunice, NM 88 (505) 394-2511		41814
LEASE OPERATOR/SHIPPE	R/COMPANY:		
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THIS JOB TICKET, TRANSPORTER R OPERATOR/SHIPPER TO TRANSPOR FACILITY FOR DISPOSAL.	TER IS NOW DELIVERED BY TRANS above Transporter loaded the mat location, and that it was tendered	ONLY THE MATERIAL DE PORTER TO SUNDANCE SI erial represented by this d by the above described	LIVERED BY ERVICES, INC.'S Transporter l shipper. This
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Current Photodocumentation

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

EME M-3-2 (1R427-101) Unit Letter M, Section 3, T21S, R36E



Facing south

7/16/2013



Facing west

7/16/2013

RICE Operating Company

122 West Taylor • Hobbs, New Mexico 8824001 211 ♀ 1: 54 Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL RETURN RECEIPT NO. 7007 2560 0000 4569 8975

October 15, 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: Additional Information and Termination Request EME M-3-2 (1R427-101): UL/M, Sec. 3, T21S, R36E RICE Operating Company – Eunice Monument Eumont (EME) 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 and Previous Work

In 2001, ROC initiated work on the former M-3-2 junction box. The site is located in UL M, Sec. 3, T21S, R36E. An updated study of NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 140 +/- feet. The site was delineated using a backhoe to form a 42x15x7.5-ft deep excavation and soil samples were screened at regular intervals for both hydrocarbons and chlorides. Each sample was field titrated for chlorides, resulting in low concentrations. Field analysis of the sidewall composite sample resulted in a chloride concentration of 600 mg/kg and TPH concentrations below detectable limits. A representative composite sample of the bottom was submitted to a commercial laboratory to be analyzed for chloride, TPH, and BTEX, resulting in a chloride concentration of 443 mg/kg and concentrations of gasoline range organics (GRO), diesel range organics (DRO) and BTEX 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 72 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, no seeding is required.

A Termination Request was submitted to NMOCD on July 19, 2013. NMOCD requested further delineation of the site on August 26, 2013.

Further investigation

To further investigate the depth of chloride presence, a soil bore was initiated on September 27, 2013 at the former junction box site. The boring was advanced to a depth of 75 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 concentrations that decreased with depth. The 10 ft and 75 ft samples were sent to a commercial laboratory for analysis. The 10 ft sample resulted in a chloride concentration of 4,760 mg/kg and concentrations of GRO and DRO below detectable limits. The 75 ft sample resulted in a chloride concentration of 144 mg/kg and concentrations of GRO and DRO below detectable limits. The order below detectable limits.

Vegetation has rebounded at this site; vegetation will act as an evapo-transpiration barrier that will 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 maps, soil bore plat, log, laboratory analysis and current 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.

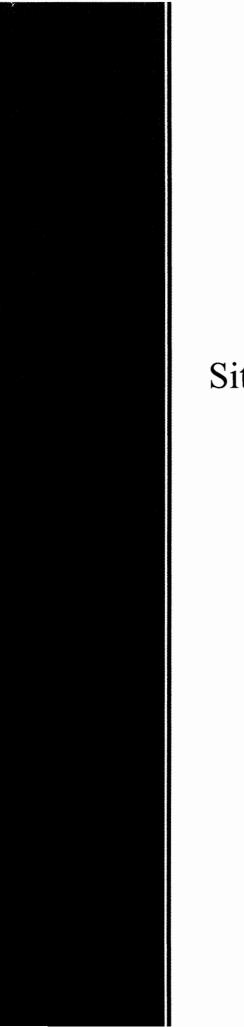
Please contact me at (575)393-2967 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely, RICE Operating Company

Alores

Laura Flores Environmental Project Assistant Manager

Enclosures

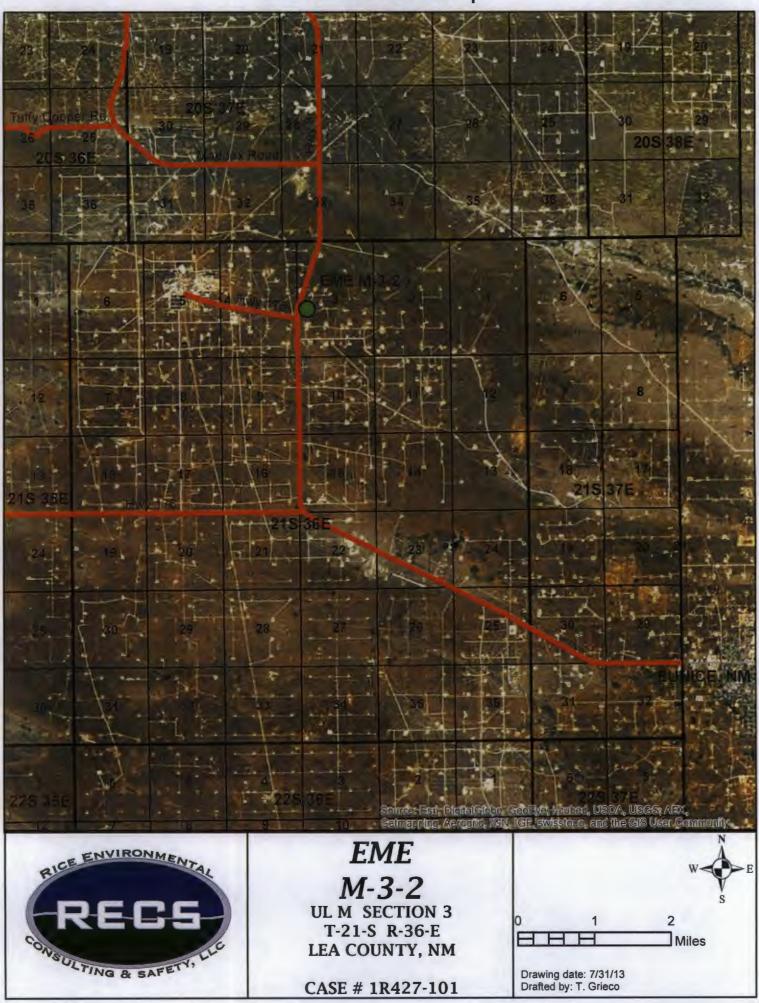


Site Maps

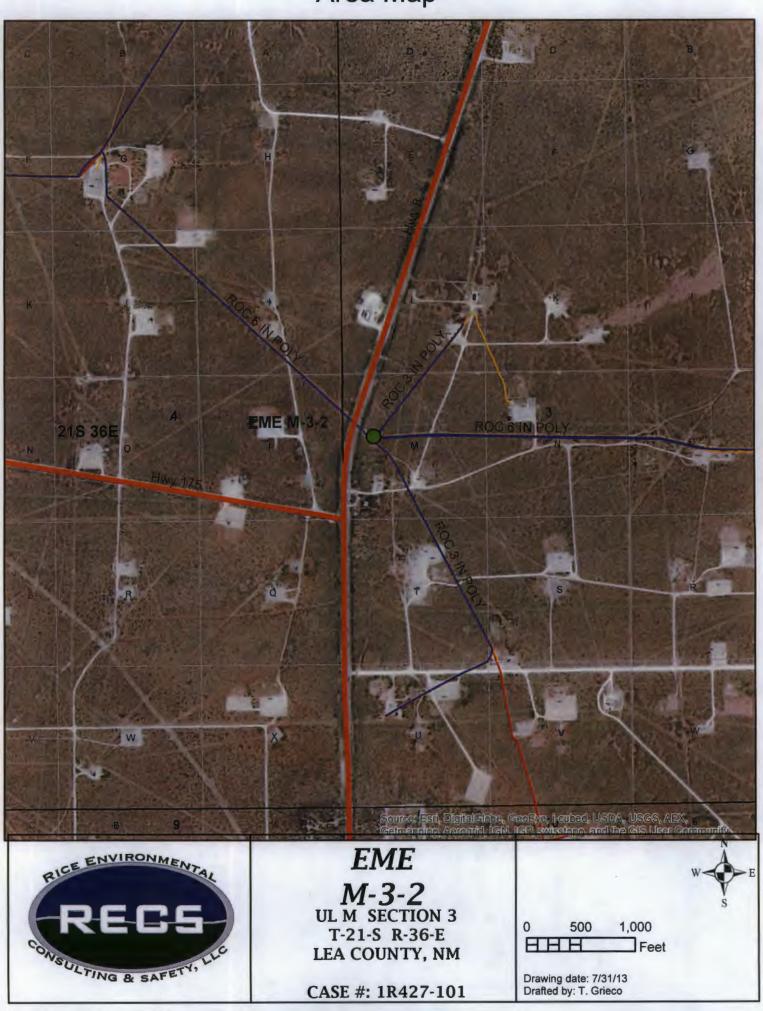
RICE Operating Company (ROC) 419 West Cain Hobbs, NM 88240

Phone: (575) 393-2967 Fax: (575) 393-0293

Site Location Map



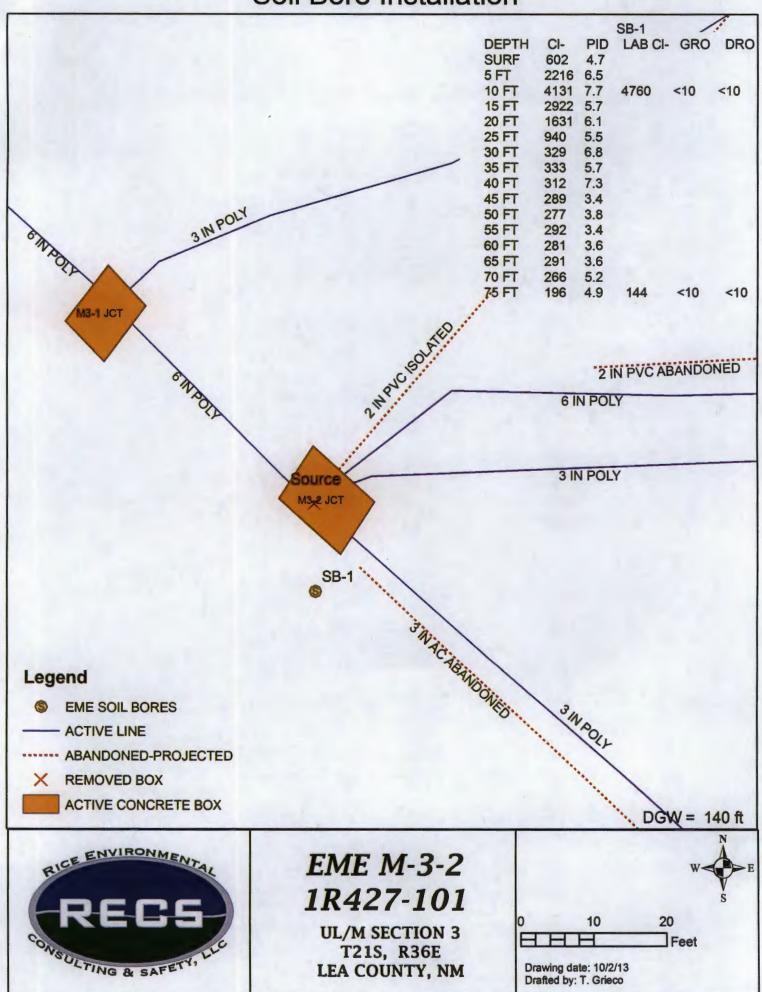
Area Map



Soil Bore Installation Documentation

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Soil Bore Installation



Logger: Edward Cesard Driller: Harrison & Cooper			Source Mage Jot	Contender	ECS	
Drilling M Start Dat		Air Rota 9/27/20		SB-1	Project Name: EME M-3-	Well ID: -2 SB-1
End Date		9/27/20				-2 30-1
	ents: SB-1 former ju	1 is located nction box	22 ft south	of the source of the M-3-2 nples were from cuttings. /einheimer GW = 140 ft	Location: UL/M Lat: 32°30'35.41 Long: 103°15'39	
Depth (feet)	Chlorid field tes		PID	Description	Lithology	Well Construction
				BROWN SAND		
SS	602		4.7			
				TAN SAND		
5 ft	2216		6.5	-44		
10 ft	4131	Cl- 4760	7.7			
-		GRO <10 DRO <10				
15 ft	0 ft 4131 CC GR <1 DR <1		5.7			
20 ft	1631		6.1	BROWN SAND		
25 ft	940		5.5			
30 ft 32			6.8			
35 ft	333		5.7			

Depth (feet)	Chloride field tests	LAB	PID	Description	Lithology	Well Construction
40 ft 45 ft	312 289		7.3			bentonite seal
50 ft	277		3.8			
55 ft	292		3.4			
60 ft	281		3.6	BROWN SAND		
65 ft	291		3.6			
70 ft	266		5.2			
-						
75 ft	196	CI- 144 GRO <10 DRO <10	4.9			



October 02, 2013

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: EME M-3-2

Enclosed are the results of analyses for samples received by the laboratory on 09/27/13 15:05.

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_accred_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. Kune

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	09/27/2013	Sampling Date:	09/27/2013
Reported:	10/02/2013	Sampling Type:	Soil
Project Name:	EME M-3-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	T21S R36E		

Sample ID: SB #1 10' (H302361-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4760	16.0 10/01/2013		ND	432	108	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	09/30/2013	ND	217	108	200	5.63	
DRO >C10-C28	<10.0	10.0	09/30/2013	ND	211	106	200	5.36	
Surrogate: 1-Chlorooctane	91.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

Sample ID: SB #1 75' (H302361-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144 16.0		16.0 10/01/2013		432	108	400	3.77	
ТРН 8015М	mg	/kg	Analyze	d By: MS					
Analyte	lyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2013	ND	186	93.2	200	4.28	
DRO >C10-C28	<10.0	10.0	10/01/2013	ND	185	92.5	200	0.113	
Surrogate: 1-Chlorooctane	urrogate: 1-Chlorooctane 96.9 %		0						
Surrogate: 1-Chlorooctadecane	107	107 % 63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

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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

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ARDINAL LABORATORIES

	(505) 393-2326 FAX (505) 393-24	76 (325) 673	-7001						1.1.1											
Company Name	RICE Operating								E_{II}	S. Tro	KAN AR				ļ	NAL	YSIS	RE	QUES	ST		
Project Manager	³ Katie Jones						P.O. #:									· · · · ·						
Address: 112			-				Company:							S								
City: Hobbs	State: NM	Zip:	8824	40			Attn:							D		•						
Phone #:	Fax #:						Address:							- L								
Project #:	Project Owner	:								I	s//											
Project Name:						· .	Stat	:e:		Zip:				TPH	n							
Project Location: EME M-3-2 T-21-5/R-36-E						Pho	ne #	:			Chlorides Chlorides BTEX BTEX exas TPH e Cations/Anions TDS											
	Edward Cesareo						Fax					물	Ť	В	Texas	Ö	F					
FOR LAB USE ONLY			-	N	MATRI	X		PRES	ERV.	SAMPLI	NG	Chl Chl				fe						
Lab I.D. 4302361	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	OTHER :	DATE	TIME		L		•	Complete						
	5841 10'	6	1		4				1	9-27-B	11:00	-	<u> </u>									
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101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

Phone Result: Yes 2 No Add'l Phone #: Received By: Relinguished B Date: 9-27-0 D Yes Fax Result: 🛛 No Add'I Fax #: **REMARKS:** Tigg: റട Date: Received By: email results Relinquished By: hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; Time: kjones@riceswd.com; Lpena@riceswd.com; Sample Condition Delivered By: (Circle One) DBY Knormandrice-ecs.com. ecesareo@rice-ecs.com Cool Intact Sampler - UPS - Bus - Other:

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

Current Photodocumentation

RICE *Operating Company* (ROC) 419 West Cain Hobbs, NM 88240 Phone: (575) 393-2967 Fax: (575) 393-0293

EME M-3-2 (1R427-101) Unit Letter M, Section 3, T21S, R36E



Facing south

7/16/2013



Facing west

7/16/2013