1R - 427-20

APPROVALS

YEAR(S):

2013

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD

Sent: Wednesday, January 16, 2013 4:05 PM **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 (1R427-20) Termination - ROC EME H-35 EOL Site

RE: Termination Request

for the Rice Operating Company's

EME H-35 EOL Site

Unit Letter H, Section 35, T20S, R36E, NMPM, Lea County, New Mexico

Remediation Plan (1R427-20) 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) (including the investigation report of January 31, 2003). 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 (1R427-20) 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 H-35 EOL (1R427-20): UL/H Sec. 35, T20S, R36E

(formerly EME A-35 EOL)

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

This site was previously referred to as EME A-35 EOL. The name is being changed to EME H-35 EOL to reflect the geographical location of the site. In 2003, ROC initiated work on the former H-35 EOL junction box. The site is located in UL/H, Sec. 35, T20S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 122 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 15x12x8 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 549 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bottom composite resulted in chloride concentrations of 496 mg/kg, a GRO concentration below detectable limits, and a DRO concentration of 29.4 mg/kg. The remediated backfill resulted in a chloride concentration of 372 mg/kg, a GRO concentration of 16.6 mg/kg, and a DRO concentration of 706 mg/kg. BTEX was also analyzed, resulting in concentrations below detectable limits in all samples. From 8-7 ft BGS, a 1 ft thick clay liner was installed. The remediated backfill was returned to the excavation to ground surface and contoured to the surrounding area. The site was not seeded as it is located within an active production battery.

The junction box site location map, final report, photodocumentation, laboratory results 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.

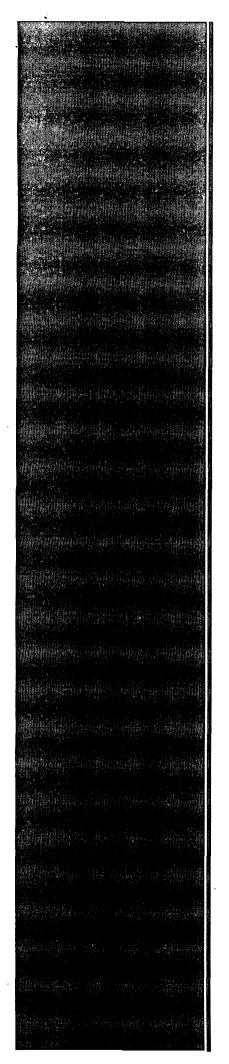
Sincerely,

RICE Operating Company

Hack Conder

Environmental Manager

enclosures



Site Location Map

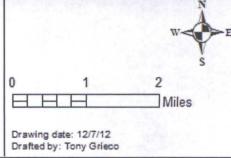
RICE *Operating Company* (ROC) 112 West Taylor Hobbs, NM 88240 Phone: (575) 393-9174 Fax: (575) 397-1471

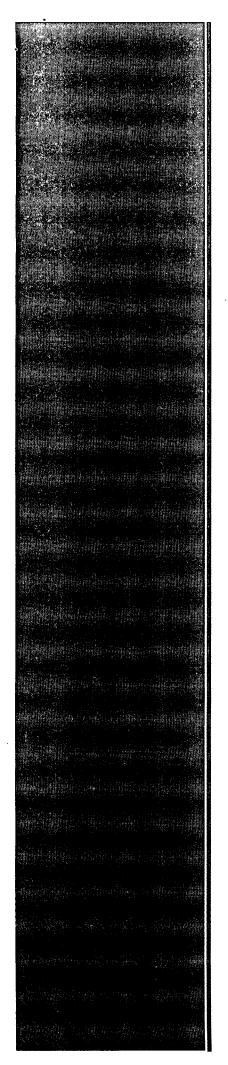
ENVIRONMEN	EM	(E			N A
21 S 35E 3 2 1 6	5 4 Hwy 21 S 36E	175	1 12	6 21S 3	7E 5
33 34 35 36	31 32	33 34	35	36	31
28 27 Z6 Tuffy Cooper Ro	30 29	28 % YMH 27	26	25	30
20 S 36E 21 22 23 24	19 20	208 37E	23	24	19
16 15 14 13	18 17	16 - 15	14	13 203	18 38E
9 10 11 12	7 8	9.6	11	12	7
Childress Rd 2 XoppeW	6 5		2 BillyW	1- alker Rd	6
33 34 35 36 Childress Rd.	31 MONU 32	MENT, NIM	35	36	31
19\$ 36E 27 26 25	19 S 37E 30 29 Jct. 322	28 27 Monument Rd.	26	19S 38	E 30
21 22 23 24	19 20	21 22	23	24	19



EME H-35 EOL

UL H SECTION 35 T-20-S R-36-E LEA COUNTY, NM





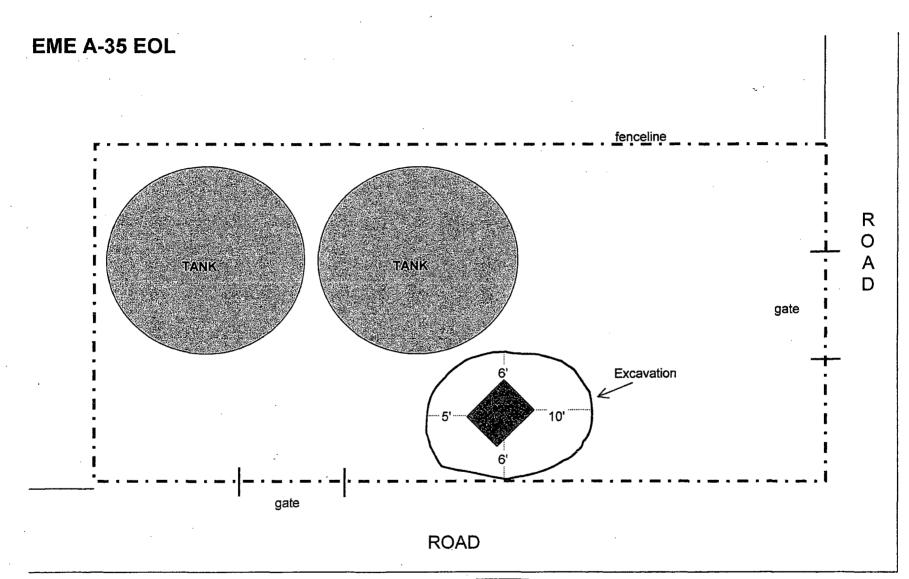
Junction Box Report

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

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX	DIMENSIONS -	FEET
EME	A-35 EOL	Α	35	20 S	36 E	Lea	Length	Width	Depth
LAND TYPE: 1	DI B#	etate		ANDOMATED	T65		OTUE		
LAND TYPE: I			_						
Depth to Groui	ndwater	122	_feet	NMOCE	SITE ASS	ESSMENT	RANKING	SCORE:	0
Date Started	1/13/	/2003	_ Date Co	mpleted	1/13/2003	OCD	Witness	N	lo
Soil Excavated	1400	cubic ya	rds Ex	cavation Le	ngth15	Width	12	Depth	
Soil Disposed	0	cubic ya	rds Of	fsite Facility	n	/a	Location	ı	n/a
INAL ANALY	TICAL F	RESULTS	S: Sampl	le Date	1/13/2	003	Sample D	epth	8'
, Pr	rocure 5-noi	nt composit	e samnle of	f bottom and	4-noint con	nnosite sam	nle of sidev	valle TPH	
` ' '	•	-		results com	•	•	-		
	DIE/Colla		-	pursuant to			OTCG IGD GI	id tooting	
			procedurou	parodantio	Time ob go				
Sample	Benzene	Tol	uene E	thyl Benzene	Total Xyler	ies G	RO	DRO	Chlorides
Location	mg/kg		g/kg	mg/kg	mg/kg		/kg	mg/kg	mg/kg
BOTTOM	<0.025		.025	<0.025	<0.025		0.0	29.4	496
SIDEWALLS REMEDIATED	<0.025 <0.025		.025 .025	<0.025 <0.025	<0.025 <0.025		0.0 3.6	<10.0 706	549 372
KEMEDIATED	<u> </u>	, , , , ,	.023	~0.025	\0.020	<u>'</u>	5.0	700	312
•									
									•
Seneral Description	n of Remed	lial Action:	This junction	hov was local	ted incide an		CHLO	RIDE FIELD	TESTS
-							OLIEO		12010
ctive production batte								- <u>r</u>	
00 ppm down to 12' l					·····	anne _i L	OCATION	DEPTH	
o excavate a 10' radio	us surrounding	the box, but	due to space	constraints in t	the battery, a		Vertical	4'	440
5' x 12' area was exc	avated to 8' b	gs (where TP	H impact ceas	sed). A compa	cted clay barr	ier		12'	440
vas installed at 8' bgs	to hinder vert	ical migration	of impact and	the soil was t	lended and		5'W	8'	587
ackfilled into the exc	avation. Since	the facility is	still active, th	e principle obj	ective of the u	pgrad	6'N	8'	221
vas to remove the so			·········				10' E	8'	606
hloride left in place the		····					6' S	8'	549
Thoraco for in place to	modeling to t	no groundwat	C) OI PUBLIC III	Jaiui,				 	
			······································					 	
c: lab results; diagra	m; photos								
		·····							
I HEREB	Y CERTIFY	THAT THE					PLETE TO	THE BEST (OF MY
			KN	OWLEDGE A	AND REFIF	r.			
DATE	1/	/31/2003		PR	RINTED NAME		Kr	istin Farris	
SIGNATURE #	100000	n Ano	7 4 0	_	TITLE	:	Proi	ect Scientist	
	11.1.11.1	10/11/1				·	F (U	COL COICINISE	





EME A-35 EOL box upgrade



Backfilled



Box Construction



Complete Box

A-35 EOL

ANALYTICAL REPORT

Prepared for:

DEREK ROBINSON
B & H ENVIRONMENTAL
2858 STEVEN ROAD
ODESSA, TX 79764

Project:

Rice Operating

PO#:

Order#:

G0305449

Report Date:

01/16/2003

Certificates

US EPA Laboratory Code TX00158

SAMPLE WORK LIST

B & H ENVIRONMENTAL 2858 STEVEN ROAD ODESSA, TX 79764

915-368-4031

Order#:

G0305449

Project:

None Given

Project Name: Rice Operating

Location:

Penrock Fopeano EOL

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.

<u>Lab ID:</u> 0305449-01	Sample: Bottom Comp. @ 8'	Matrix:		Date / Time <u>Collected</u> 1/13/03 13:30	Date / Time <u>Received</u> 1/14/03 8:05	Container 4 oz Glass	Preservative Ice
<u>La</u>	ab Testing: 8015M 8021B/5030 BTEX Chloride	Rejected:	No	Te	mp: 3.5 C		
0305449-02	Wall Composite @ 6'	SOIL		1/13/03 13:35	1/14/03 8:05	4 oz Glass	Ice
<u>L</u> a	nb Testing: 8015M 8021B/5030 BTEX Chloride	Rejected:	No	Te:	mp: 3.5 C		
0305449-03	Remediated Composite	SOIL	·	1/13/03 15:30	1/14/03 8:05	4 oz Glass	Ice
<u>La</u>	nb Testing: 8015M 8021B/5030 BTEX Chloride	Rejected:	No .	Те	mp: 3.5 C		

ANALYTICAL REPORT

DEREK ROBINSON
B & H ENVIRONMENTAL
2858 STEVEN ROAD
ODESSA, TX 79764

Order#:

G0305449

Project:

None Given

Project Name:

Rice Operating

Location:

Penrock Fopeano EOL

Lab ID:

0305449-01

Sample ID:

Bottom Comp. @ 8'

8015M

Method Blank Date Prepared Date

Sample Amount

Dilution

Analyst

Method 8015M

Analyzed 1/14/03

1

Factor Analysis 1 CK

 Parameter
 Result mg/kg
 RL

 GRO, C6-C12
 <10.0</td>
 10.0

 DRO, >C12-C35
 29.4
 10.0

 TOTAL, C6-C35
 29.4
 10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	71%	70	130
1-Chlorooctadecane	70%	70	130

8021B/5030 BTEX

Method <u>Blank</u> 0004365-02 Date Prepared Date
Analyzed
1/14/03

23:02

Sample <u>Amount</u> 1 Dilution Factor 25

Analyst CK

Method 8021B

Result RLParameter mg/kg 0.025 Benzene <0.025 Toluene <0.025 0.025 0.025 Ethylbenzene <0.025 0.025 p/m-Xylene < 0.025 0.025 o-Xylene < 0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	82%	80	120
Bromofluorobenzene	86%	80	120

ANALYTICAL REPORT

DEREK ROBINSON B & H ENVIRONMENTAL 2858 STEVEN ROAD ODESSA, TX 79764 Order#:

G0305449

Project: Project Name: None Given Rice Operating

Location:

Penrock Fopeano EOL

Lab ID:

0305449-02

Sample ID:

Wall Composite @ 6'

8015M

Method	
Blank	

Date Prepared Date Analyzed Sample Amount Dilution

Analyst Method

8015M

1/14/03

1

Factor Analyst
CK

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

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	77%	70	130
1-Chlorooctadecane	70%	70	130

8021B/5030 BTEX

Method
Blank
0004365-02

Date Prepared Date
Analyzed
1/15/03

15:56

Sample
Amount

Dilution <u>Factor</u>

25

Analyst CK

Method 8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	91%	80	120
Bromofluorobenzene	96%	80	120

ANALYTICAL REPORT

DEREK ROBINSON **B & H ENVIRONMENTAL** 2858 STEVEN ROAD ODESSA, TX 79764

Order#:

G0305449

Project:

None Given

Project Name: Location:

Rice Operating Penrock Fopeano EOL

Lab ID:

0305449-03

Sample ID:

Remediated Composite

8015M

Method	
Blank	I

Date Date **Prepared**

Sample

Dilution

Analyzed 1/14/03

Amount

Factor 1

Method Analyst $\mathbf{C}\mathbf{K}$ 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	16.6	10.0
DRO, >C12-C35	706,	10.0
TOTAL, C6-C35	723	10.0

Surrogates	% Recovered	QC Limits (%)						
1-Chiorooctane	88%	70	130					
1-Chlorooctadecane	84%	70	130					

8021B/5030 BTEX

Method	Date	Date	Sample
Blank	Prepared	<u>Analyzed</u>	Amount
0004365-02		1/15/03	1
		16:17	

Dilution Factor 25

Analyst Method CK

8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)						
aaa-Toluene	87%	80	120					
Bromofluorobenzene	94%	80	120					

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.

ANALYTICAL REPORT

DEREK ROBINSON B & H ENVIRONMENTAL 2858 STEVEN ROAD ODESSA, TX 79764

Order#:

G0305449

Project: Project Name:

None Given Rice Operating

Location:

Penrock Fopeano EOL

Lab ID:

0305449-01

Sample ID:

Bottom Comp. @ 8'

Test Parameter	S
----------------	---

Parameter Chloride

Result Units

Dilution RLFactor 1 20 mg/kg

Method 9253

Date Analyzed

1/14/03

Analyst SB

Lab ID:

0305449-02

Sample ID:

Wall Composite @ 6'

Test Parameters

Parameter Chloride

Units Result

Dilution Factor <u>RL</u> 20 1

Method 9253

Date Analyzed 1/14/03

Analyst SB

Lab ID:

0305449-03

Sample ID:

Chloride

Remediated Composite

Test Parameters

Parameter

Result 372

549

496

Units mg/kg

mg/kg

Dilution **Factor** 1

RL Method 20 9253

Date Analyzed 1/14/03

Analyst SB

Date

Approval: Care McMewee Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

QUALITY CONTROL REPORT

8015M

Order#: G0305449

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	********	0004352-02			<10.0	1	
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305449-02	0	952	807	84.8%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305449-02	0	952	846	88.9%	4.7%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004352-05		1000	775	77.5%	

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305449

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004365-02	····	<u> </u>	<0.025		
Toluene-mg/kg		0004365-02	· · · · · · · · · · · · · · · · · · ·		<0.025		
Ethylbenzene-mg/kg		0004365-02			<0.025		
p/m-Xylene-mg/kg		0004365-02		-	<0.025		
o-Xylene-mg/kg		0004365-02			<0.025		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305449-02	0	0.1	0.104	104.%	
Toluene-mg/kg		0305449-02	0	0.1	0.106	106.%	······································
Ethylbenzene-mg/kg	······································	0305449-02	0	0,1	0.108	108.%	
p/m-Xylene-mg/kg		0305449-02	0	0.2	0.228	114.%	
o-Xylene-mg/kg		0305449-02	0	0.1	0.110	110.%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305449-02	0	. 0.1	0.098	98.%	5.9%
Toluene-mg/kg	<u> </u>	0305449-02	0	0.1	0.101	101.%	4.8%
Ethylbenzene-mg/kg		0305449-02	0	0.1	0.103	103.%	4.7%
p/m-Xylene-mg/kg		0305449-02	0	0.2	0.216	108.%	5.4%
o-Xylene-mg/kg		0305449-02	0	0.1	0.104	104.%	5.6%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004365-05		0.1	0.104	104.%	
Toluene-mg/kg		0004365-05		0.1	0.107	107.%	
Ethylbenzene-mg/kg		0004365-05		0.1	0.108	108.%	
p/m-Xylene-mg/kg		0004365-05		0.2	0.225	112.5%	
o-Xylene-mg/kg		0004365-05		0.1	0.108	108.%	· · · · · · · · · · · · · · · · · · ·

QUALITY CONTROL REPORT

Test Parameters

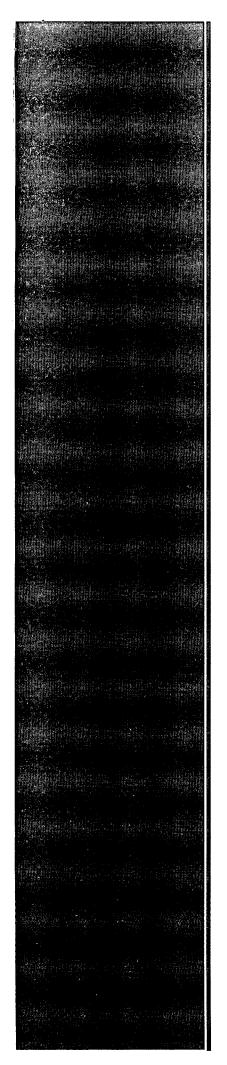
Order#: G0305449

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004333-01			<20.0		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
Chloride-mg/kg		0305446-01	0	1131	1010	89.3%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	•	0305446-01	1010	1131	1010	89.3%	0.%
SRM ·	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pet (%) Recovery	RPD
Chloride-mg/kg		0004333-04		5000	4960	99.2%	

vironmental Lab of Texas I, Ltd.

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

Project Manager:	: De	rek Rob	אמצמא										_	ı	Proje	ct Na	me:		<u> Ric</u>	ce	0,	ser.	Atin	ug_		
Company Name				1 / Pipel	ine + N	lain	ter	MK	e												•					
Company Address:		•													Pro	ject l	-oc: _	Pe	NRO	<u>xk</u>	Fo	pea	NO	Eo	<u>L</u>	
City/State/Zip:			·										_			P	O #:_									
Telephone No:	:		· ·		Fax No	»:																				
Sampler Signature:	· Du	el Rol	uson										_		_		_		Δ	nalyz	a For				 1	
· use only)		\neg		•											<u> </u>		TOT		Ŧ	I I	<u> </u>					
IDER #:				; 	····	1		Pr	eser	vative		7	Ма	trix	900	3		a V.							a a	п [—]
305449 01 Boz 02 Wa 03 Ren	Hom C 11 Co. nediate	ELD CODE Omposite mposite (d Compo	Q8' Q6' site	7-13.03 1-13.03	7:30 7:35 3:30	No. of Containers	92]	NO.	NaOH	*OS ² H	None	Other (Specify)	Sludge	los / / /	Other (specify):	Cations (Ca, Mg, Na, K)	\ \ \ Anians(C)3504, CO3, HCO3)	SAR / ESP / CEC	Volatiles	Semivolatiles	N BTE 96021B/5030				RUSH TAT (Pre-Schedule	Standard TAT
ecial Instructions:															工						工				工	
eciai instruciions;																	Tem	peratu	ıre U	ners la pon R	Receip	ot:	Υ.		N	
linguished by: Ound Rolen	200	Date /-/8-03	7ime	Received by:									ate	T	Tin					mme): }			
linquished by:		Date	Time	Received by ELC	ot: Qu	d	7	/		Fj	1	1/14	ale,	3	Tim	ie 509	: استار 			fl	JE.	9	UPS.			



Current Photodocumentation

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

EME H-35 EOL (1R427-20) Unit Letter H, Section 35, T20S, R36E



Facing South 1/8/2013



Facing West 1/8/2013