1R - 427 - 43

REPORTS

DATE:

2-18-2004

EME I-12 120427-43

FINAL

REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

			BOX LOC					
SWD SYSTEM JUN	NCTION UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	Length	IMENSIONS - F	Depth
EME	1-12	12	218	35E	Lea		oved 30 ft north	
LAND TYPE: BLM	STATE	FEE LA	NDOWNER	Merchant	Livestock C	o. OTHER		
Depth to Groundwa	ater 133	feet	NMOCE	SITE ASS	ESSMENT	RANKING S	CORE:	0
Date Started	8/14/2003	Date Cor	npleted	10/17/2003	OCD \	Witness	No	
Soil Excavated	12 cubic ya	rds Exc	avation Le	ength 3	Width	8	Depth	feet
Soil Disposed	0 cubic ya	rds Off	fsite Facility	n	/a	Location	n,	/a
FINAL ANALYTIC Chloride laboratory tempore		l by using a	n approved				epth soil b	
	Sample	Chloride			L	CATION	DEPTH (ft)	ppm
	Location				-	Vertical	8	862
	Bore 14 ft South	mg/kg			<u></u>	//backhoe	10	1192
	@ 42 ft	674					12	1194
	Bore 10 ft East						13	1191
	@ 44 ft	603			-		14	879
		<u> </u>			Bo	re 14 ft South	20	1376
Seneral Description of	Remedial Action:	Vertical delin	eation with a t	backhoe at the	}		26	1407
old junction box site did no							28	1309
ndicated minimal VOC's.	······································						34	969
ndicated a conclusive decl	line in chloride concentr	ations well be	fore groundwa	ater was			38	797
ncountered (see graphs).	A compacted clay barr	ier was install	ed at 6 ft bgs	and the hole v	/as		42	842
ackfilled with the excavate	ed soil that was landfarr	ned on-site.	The surface wa	as leveled and	В	ore 10 ft East	20	1538
ontoured to the surroundi	ng terrain. On 12/12/20	03, the site w	as re-seeded	with a seed ble	end		24	1713
f native vegetation and wi	ill be monitored for grow	th. This junct	tion has been	moved 30 ft n	orth		28	803
nd a water-tight box has t	peen built over it.						32	1199
							36	1039
							38	691
nclosed: lab results, chlor	ide graphs, PID reading	, photos, clay	compaction to	est			42	713
DATE	2/18/2004	KNC)WLEDGE /	AND BELIEI	=. 	Kris	stin Farris	MY
SIGNATURE	virtin Sani	<u>~</u>		TITLE		Proje	ct Scientist	

EME jct. I-12



Old junction site in foreground; new junction 30 ft north in background (backhoe) 8/5/2003



Beginning excavation & delineation at old junction box site 8/14/2003



Soil bore for chloride delineation 9/18/2003



Compaction & density test of clay barrier at 6 ft 10/2/2003



Identification plate marking clay barrier



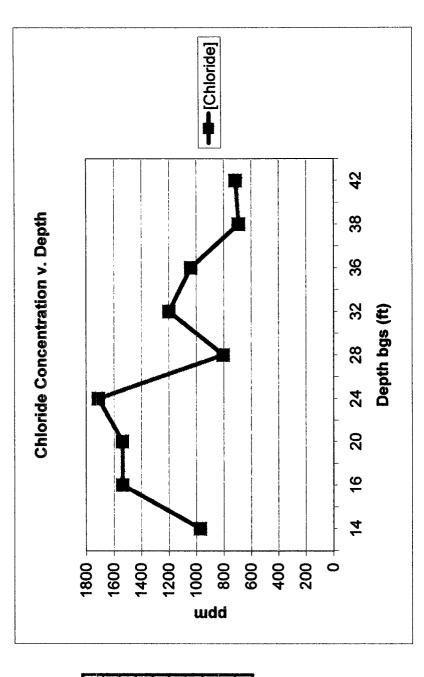
Seeding disturbed surface 12/12/2003

EME jct. I-12 T218, R35E

10 ft East of Junction

[CI] ppm	972	1536	1538	1713	803	6611	1039	169	713
Depth bgs (ft)	14	16	20	24	28	32	36	38	42



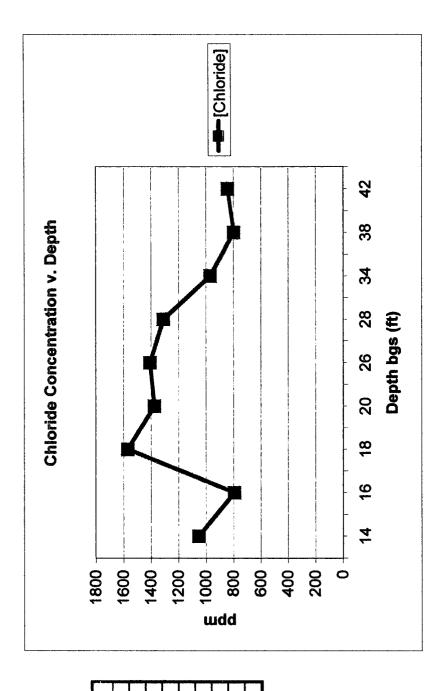


EME jct. I-12 T21S, R35E

14 ft South of Junction

[CI] ppm	1053	26 <i>L</i>	1569	1376	1407	1309	696	<i>L6L</i>	842
Depth bgs (ft)	14	16	18	20	26	28	34	38	42

Groundwater = 133 ft



ANALYTICAL REPORT

Prepared for:

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

Project:

EME I-12

PO#:

Order#:

G0307651

Report Date:

10/08/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Rice Operating 122 W. Taylor Hobbs, NM 88240

505-397-1471

Order#:

G0307651

Project:

Bore Samples

Project Name: EME I-12

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.

<u>Lab ID:</u> 0307651-01	Sample: Source @ 42'	Matrix:	Oate / Time Collected 9/18/03	Received10/6/038:00	Container Plastic Bag	Preservative ice
<u>Lat</u>	b Testing: Chloride	Rejected: No	Ten	np: 4.0 C		
0307651-02	10' E. Source @ 44'	SOIL	9/18/03 14:30	10/6/03 8:00	Plastic Bag	ice
<u>Lai</u>	b Testing: Chloride	Rejected: No	Ten	np: 4.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris Rice Operating 122 W. Taylor Hobbs, NM 88240 Order#: Project: G0307651

Project Name:

Bore Samples EME I-12

Location:

None Given

20

Lab ID:

0307651-01

Sample ID:

Source @ 42'

Test Parameters

Parameter
Chloride

Dilut Units Fac

mg/kg

Dilution Factor RL

Date
Method Analyzed

Analyst SB

Lab ID:

0307651-02

Sample ID:

Parameter

Chloride

10' E. Source @ 44'

Test Parameters

Result Units

mg/kg

Result

674

603

Dilution <u>Factor</u> <u>RI</u>

<u>RL</u> 20 Method 9253

9253

Date
Analyzed
10/7/03

10/7/03

<u>Analyst</u> SB

Approval:

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

Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0307651

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0007064-01			<20		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307648-01	1030	500	1540	102.%	. ,
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0307648-01	1030	500	1560	106.%	1.3%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0007064-04		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

Project Manager: KRIS+1N FARRIS

SAMP1ES

Project #: BORE

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: EME

88240 COMPANY NAME RICE OPER, Co. Company Address: 122 Wilky LOR City/State/Zip: Hobbs, N.M.

Telephone No: \$05-393-9174

Fax No: 505-397-1471

₽0 #:

Project Loc:

TAT brebnst2 AUSH TAT (Pre-Schedule Temperature Upon Recept Sample Containers Intact? Analyze For BTEX 8021B/5030 Metals: As Ag Ba Cd Cr Pb Hg Se TCLP: TOTAL: ORCION OR OR HAT 3001/2001 XT H9T 1.811 H9T Time TOS / CL / SAR / EC Other (specify): lio2 Sludge Date 1916W Other (Specify) enoM os'H HOEN HCI уио3 No. of Containers 1030 230 balqma2 emiT 9-18-03 6-18-03 Received by: Date Sampled Time \mathcal{G} Date FIELD CODE Source @ Source Sampler Signature: Special Instructions: AB # (lab use only) Relinquished by: Relinquished by Ö

8-14-03 EME Z-12 Verticel dig 14' 65-1 ppm red chey *~* 862 ppm Red eley Grey Sand 908 pm Grey Sand Grey Send 1192 ppm 858 pm Grey Send 1194 ppm Grey Send 1191 000 Grey Send 10 43.4 Grey Sand 829 ppm 70 Verticel dig 141 E center



LABORATORY TEST REPORT PETTIGREW and ASSOCIATES, P.A.

1110 N. GRIMES HOBBS, NM 88240 (505) 393-9827



DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.

To:

Rice Operating Corporation

Attn: Carolyn Haynes

122 W. Taylor Hobbs, NM 88240 Material:

Red Clay

Test Method:

ASTM: D 2922

Project:

EME- | 12

Date of Test:

October 2, 2003

Depth:

Finished Subgrade

Test No. Location Dry Density

Maximum Moisture Depth

SG-1 Pit - 10' N. & 5' W. of the SE Corner 103.0 18.4



Control Density:

104.2

ASTM: D 698

Optimum Moisture:

23.1%

Required Compaction:

95%

Lab No.:

03 6230-6231

Copies To:

Rice Operating

PETTIGREW and ASSOCIATES

exconfects