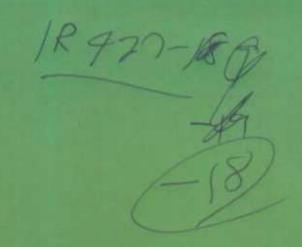
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REPORTS

DATE:

11-26-2003

EME A-8 boot



FINAL

REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

SWD SYSTEM JUNCTION UNIT SECTION TOWNSHIP RANGE COUNTY BOX DIMENSIONS - FEET EME	
EME A-8 boot A 8 21S 36E Lea moved 60 ft west LAND TYPE: BLM STATE X FEE LANDOWNER OTHER	
LAND TYPE: BLMSTATEXFEE LANDOWNEROTHER	
Depth to Groundwater 200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0	
Date Started 9/2/2003 Date Completed 9/25/2003 OCD Witness No	
Soil Excavated 367 cubic yards Excavation Length 30 Width 30 Depth 11	feet
Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a	<u> </u>
FINAL ANALYTICAL RESULTS: Sample Date 9/4/2003 Sample Depth 11 ft b	ıs
Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.	
Sample Benzene Toluene Ethyl Benzene Total Xylenes GRO DRO Chic	
Location mg/kg Mg/kg	
SIDEWALLS PID = 85.3 26.9 495 70	
BOTTOM PID = 31.5 78.6 767 58	
General Description of Remedial Action: The site was delineated vertically and CHLORIDE FIELD TESTS laterally with a backhoe while chloride tests and PID readings were performed at regular	
	pm
were well below NMOCD guidelines. Bottom composite and 4-wall composite samples were vertical @ jct. 7	113
taken for closure from the final 30 x 30 x 11 ft deep excavation. The excavated soil was blended	64
at the location and then backfilled into the excavation. The disturbed surface area was	34
	85
11	577
12	65
13	134
14	867
4-wall comp. n/a	81
cc: lab results, chloride graph, photos, PID readings remed. comp. n/a	374
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.	
DATE 11/26/2003 PRINTED NAME Kristin Farris	
DATE 11/26/2003 PRINTED NAME Kristin Farris SIGNATURE Kristin Farris TITLE Project 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)

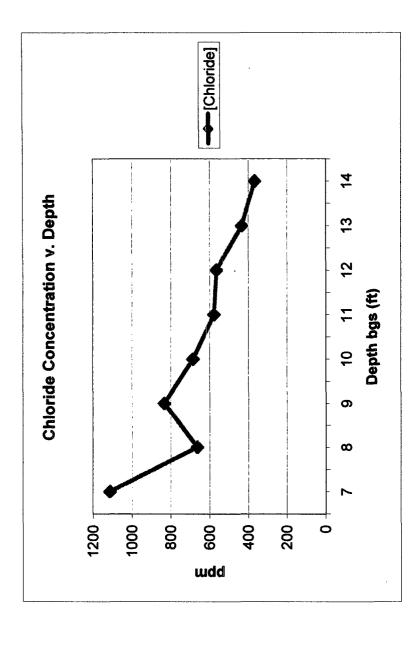


Seeding Disturbed Surface (10/15/2003)

EME A-8 boot 721S, R36E

[CI] ppm	1113	664	834	589	LLS	295	434	298
Depth bgs (ft)	7	8	6	10	11	12	13	14

Groundwater = 200 ft



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

122 W. Taylor

Hobbs, NM 88240

505-397-1471

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.

<u>Lab ID:</u>	Sample: Bottom Composite	Matrix:	Date / Time <u>Collected</u> 9/4/03	Date / Time Received 9/8/03	Container 4 oz glass	Preservative
0307402-01	Bottom Composite	SOIL	14:45	8:00	+ 02 glass	100
<u>La</u>	b Testing:	Rejected: No	Te	mp: 9.0 C		
	8015M					
	Chloride					
0307402-02	4 Wall Composite	SOIL	9/4/03	9/8/03	4 oz glass	ice
			15:35	8:00		
<u>La</u>	b Testing:	Rejected: No	Te	mp: 9.0 C	√ •	
	8015M					
_	Chloride					

ANALYTICAL REPORT

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

3

Order#:

G0307402

Project:

Project Name: Location:

EME A-8 None Given

Lab ID:

0307402-01

Sample ID:

Bottom Composite

Test Parameters

Parameter Chloride

Result 585

Units mg/kg Dilution **Factor** RL1

20

Method Analyzed 9253 9/9/03

Date

Analyst SB

Lab ID:

0307402-02

Sample ID:

Chloride

4 Wall Composite

Test Parameters

Parameter

Result 70.9

Units mg/kg Dilution **Factor** 1

<u>RL</u> 20

Method 9253

Date Analyzed 9/9/03

Analyst SB

Raland K. Tuttle, Lab Director, QA Officer Date

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

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 Prepared Date
Analyzed
9/8/03

Sample Amount

Dilution <u>Factor</u> 1

Analyst CK

Method 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 Limits (%)			
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 Analyzed 9/8/03 Sample Amount Dilution <u>Factor</u>

Analyst CK

Method 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 Limits (%			
1-Chlorooctane	117%	70	130		
1-Chlorooctadecane	129%	70	130		

Approval: Lab Director, QA Officer Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

Page 1 of 1

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	the state of the s	5000	4960	99.2%	·····

Environmental Lab of Texas, Inc.

Odessa, Texas 79763

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Name: Project Lac: PO #: Project #: Fax No: (505) 397 - 1471 Company Name RICE Operating Co. City/State/Zip: Hobbs, NM 88340 Project Manager: Kristin Faccis Sampler Signature: Anutin Sauce Company Address: 122 N Taylor Telephone No (505) 393-9174

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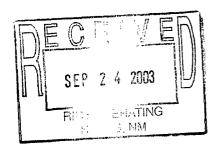
PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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; ClT: Std. Methods 4500-ClTB *Analysis performed on a 1:4 w:v aqueous extract.

H8019A.XLS
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

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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

ETHYL TOTAL
BENZENE TOLUENE BENZENE XYLENES
LAB NO. SAMPLE ID (mg/Kg) (mg/Kg) (mg/Kg) (mg/Kg)

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
			· · · · · · · · · · · · · · · · · · ·	
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

year AA Cooper

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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ANALYSIS REQUEST				01.110				M	Company	RICE ON	Company Name:
Pageof					(505) 393-2326 Fax (505) 393-2476	26 Fax	393-23	(505)	673-7020	(915) 673-7001 Fax (915) 673-7020	
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Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

EME A-8 ETGIE Re-Environmental Finial Report Jut Dox 9-4-03 stallpile bland wheter some dirt 9-8-03 stock pile blend Teleen seme dirt 9-9-03 stock pile bleat Teleru some diet . . 420 ppn 4280 TrN 285.7 po.d 9-17-03 stock pile blend Welein same dint 9-18-03 stullpile blend wheleve same dist 374 ppm 2780 TPN 190,4 pid LAB 336 stated beckfilling, 9-24-03 . complete beelefilling 9-25.03 Love scape area 9.25.63

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Mary Man

ETGI Geysterle Fixel report Bottom/ Four well composite

SITE EXCAVATION INFORMATION

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DATE	DÉPTH	CL 585	PID	TPH	ĺ	SOIL COMPOSITION
		LAR CO		Tony RE	LAB	
9-4-03	Botton 11	630	31.5	416	502	~ 1x
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