

REPORTS

DATE:



EME A-12 Boot

1R0427-153

FINAL

REPORT

RICE OPERATING COMPANY JUNCTION BOX FINAL REPORT

				BOX LOC	ATION					
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX D	MENSIONS	S - FEET	
ENAE	A 40 hant	•	40	205	265	1.00	Length	Width	Depth	
EIAIE	A-12 DOOL		12	205	305	Lea	m	oved 80 ft w	vest	
LAND TYPE: I	BLM	STATE	FEE LA	NDOWNER	Jimmie SITE ASSE	<u>= T. Cooper</u> ESSMENT	CANKING S	CORE:	20	<u></u>
Date Started	6/3/	2004	_ Date Co	mpleted	8/13/2004		Witness		No	
Soil Excavated	5	cubic ya	irds Exc	avation Le	ength <u>6</u>	Widt	h <u>6</u>	Depth	4	feet
Soil Disposed	I <u>0</u>	cubic ya	irds Of	fsite Facility	<u> </u>	/a	Location		n/a	<u></u>
FINAL ANAL	YTICAL F	RESULT	S: Sampl	e Date	6/3/20	04	Sample De	pth	6 ft	

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 Location	<u>Benzene</u> ppm	<u>Toluene</u> mg/kg	<u>Ethyl Benzene</u> mg/kg	<u>Total Xylenes</u> mg/kg	<u>GRO</u> mg/kg	<u>DRO</u> mg/kg	<u>Chloride</u> mg/kg
4-WALL COMP.	<0.005	<0.005	<0.005	<0.005	<10.0	37.1	64
BOTTOM GRAB @ 6 ft	<0.005	<0.005	<0.005	<0.0015	<10.0	41.4	112

General Description of Remedial Action: This junction box contained a boot and was located inside an active production battery. The junction was re-plumbed and the new boot and box were relocated 80 ft west of the old one, still inside the facility. There was no physical indications of chloride or hydrocarbon impact and chloride field testing was performed using a hand auger to collect samples. Sample concentrations were similar to background chloride levels and TPH lab results yielded concentrations well below NMOCD guidelines. BTEX concentrations were non-detect and met NMOCD guidelines. 6 cubic yards of clean soil was imported to fill the hole caused by NORM decontamination. The backfill was contoured to mimic the surrounding surface at the battery.

enclosures: photos, lab results, chloride graph

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
background	0	64
vertical	0	90
at box	1	97
	2	94
	3	100
	4	55
	5	61
	6	64
4-wall comp.	0-4	91

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

	toy RasconSIGNATURE_	Lay L. L		-
REPORT ASSEMBLED BY	Kristin Farris Pope	SIGNATURE	Anistin Jamis Pope	_
DATE	9/1/2004	TITLE	Project Scientist	_

EME A-12 boot

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unit 'A', Sec. 12, T20S, R36E



box removed after NORM decontamination; new connection

undisturbed junction box with boot

4/22/2003



1/8/2004



EME A-12 boot

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backfilled box site with new box and boot in background (looking west)

8/13/2004

backfilling old junction box site 7/8/2004

CHLORIDE CONCENTRATION CURVE

RICE Operating Company

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EME A-12 boot

T20S, R36E

Vertical Delineation at Source

	A						
[CI] ppm	90	97	94	100	55	61	64
Depth bgs (ft)	0	1	2	3	4	5	9

Groundwater = 27 ft

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PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 + 101 E. MARLAND + HOBBS, NM 68240

ANALYTICAL RESULTS FOR RICE OPERATING CO. ATTN: KRISTIN FARRIS 122 W. TAYLOR HOBBS, NM 88240 FAX TO: (505) 397-1471

Receiving Date: 06/03/04 Reporting Date: 06/05/04 Project Number: NOT GIVEN Project Name: EME A-12 JCT. Project Location: A-12 JCT. Sampling Date: 06/03/04 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBER SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	08/04/04	06/04/04	06/04/04	06/04/04
H8788-1 A-12 6' BGS	<0.005	<0.005	<0.005	<0.0015
		0.000		
Quality Control	0.096	0.098	0.092	0.2/4
True Value QC	0.100	0.100	0.100	0.300
% Recovery	95.5	97.7	92.3	91.2
Relative Percent Difference	2.7	3.7	3.7	3.9

METHOD: EPA SW-846 8260

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PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim srising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, trajusing trave-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 however, the four 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 however, the four 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 however, the four cause of the consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, atfliates or successore 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.



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LAB NO.	SAMPLE ID	GRO (C ₈ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS E	DATE	06/04/04	06/04/04	06/04/04
H8788-1	A-12 6' BGS	<10.0	41.4	112
······				
Quality Cont	rol	790	785	950
True Value (20	800	800	1000
% Recovery		98.8	98.2	95.0
Relative Per	cent Difference	0.9	7.2	6.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB *Analysis performed on a 1:4 w:v aqueous extract.

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H8788A.XLS

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LAB NO. SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	06/04/04	06/04/04	06/04/04	06/04/04
H8789-1 A-12 WALL COMPOSITE	<0.005	<0.005	<0.005	<0.0015
	·			
Quality Control				
True Value QC	0.100	0.100	0.100	0.300
% Recovery				
Relative Percent Difference				1

METHOD: EPA SW-846 8260

SPOG Date

Date

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LAB NO.	SAMPLE ID	GRO (C ₈ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Ci* (mg/Kg)
ANALYSIS	DATE	06/04/04	06/04/04	06/04/04
H8789-1	A-12 WALL COMPOSITE	<10.0	37.1	64
Quality Co	ntrol	790	785	950
True Value	QC	800	800	1000
% Recove	ſ <u>y</u>	98.8	98.2	95.0
Relative P	arcent Difference	0.0	72	60

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B *Analysis performed on a 1:4 w:v aqueous extract.

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H8789A, XLS

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