

1R - 428-14

# REPORTS

DATE:

DEC 4, 2002

IR-428-14

# FINAL REPORT

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
HOBBS	E-4-2	E	4	19S	38E	LEA	Length	Width	Depth

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER \_\_\_\_\_ OXY PERMIAN \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater \_\_\_\_\_ <50 \_\_\_\_\_ feet NMOCD SITE ASSESSMENT RANKING SCORE: \_\_\_\_\_ 20 \_\_\_\_\_

Date Started \_\_\_\_\_ 11/25/2002 \_\_\_\_\_ Date Completed \_\_\_\_\_ 11/25/2002 \_\_\_\_\_ OCD Witness \_\_\_\_\_ NO \_\_\_\_\_

Soil Excavated \_\_\_\_\_ 40 \_\_\_\_\_ cubic yards Excavation Length \_\_\_\_\_ 12' \_\_\_\_\_ Width \_\_\_\_\_ 12' \_\_\_\_\_ Depth \_\_\_\_\_ 8' \_\_\_\_\_ feet

Soil Disposed \_\_\_\_\_ cubic yards Offsite Facility \_\_\_\_\_ Location \_\_\_\_\_

**FINAL ANALYTICAL RESULTS:** Sample Date \_\_\_\_\_ 11/25/2002 \_\_\_\_\_ Sample Depth \_\_\_\_\_ 8' \_\_\_\_\_

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	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
SIDEWALLS	<0.005	<0.005	<0.005	<0.015	<10	<10	71
BOTTOM	<0.005	<0.005	<0.005	<0.015	<10	<10	71

**General Description of Remedial Action:** Delineated vertically to 8' bgs. There was

no indication of TPH impact. Field tests indicated samples were under NMOCD guidelines.

Backfilled with blended soil and contoured to surrounding terrain. This site is part of the Hobbs SWD system abandonment and a junction box is not required.

Sample results from Cardinal found higher than expected chlorides. Split samples were sent to

Environmental Lab of Texas for confirmation and found chlorides of 71 ppm on the bottom

bottom composite and 17 ppm on the wall which were more comparable to the field test results.

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\_\_\_\_\_

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	mg/kg
SIDEWALLS	7'	200
BOTTOM	8'	150
Backfill	-	260

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

DATE \_\_\_\_\_ December 4, 2002 \_\_\_\_\_

PRINTED NAME \_\_\_\_\_ D. E. Anderson \_\_\_\_\_

SIGNATURE \_\_\_\_\_  \_\_\_\_\_

TITLE \_\_\_\_\_ Project Leader - Environmental \_\_\_\_\_



# ARDINAL LABORATORIES

PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 11/25/02  
Reporting Date: 12/02/02  
Project Number: NOT GIVEN  
Project Name: HOBBS SWD SYSTEM  
Project Location: JCT E-4-2

Sampling Date: 11/25/02  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	(mg/Kg)
ANALYSIS DATE		11/26/02	11/26/02	11/26/02
H7251-1	5PT BTM COMPOSITE	<10.0	<10.0	1540
H7251-2	4PT WALL COMPOSITE	<10.0	<10.0	912
Quality Control		827	826	950
True Value QC		800	800	1000
% Recovery		103	103	95.0
Relative Percent Difference		10.9	1.1	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

\*Analyses performed on 1:4 w:v aqueous extracts.

*Burgess for Cooke*  
Chemist

12/02/02  
Date



H7251A.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.



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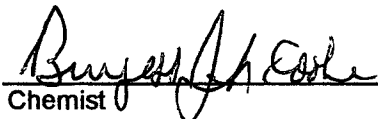
ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: D. ANDERSON  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO: (505) 397-1471

Receiving Date: 11/25/02  
Reporting Date: 11/27/02  
Project Number: NOT GIVEN  
Project Name: HOBBS SWD SYSTEM  
Project Location: JCT E-4-2

Sampling Date: 11/25/02  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		11/26/02	11/26/02	11/26/02	11/26/02
H7251-1	5PT BTM COMPOSITE	<0.005	<0.005	<0.005	<0.015
H7251-2	4PT WALL COMPOSITE	<0.005	<0.005	<0.005	<0.015
Quality Control		0.095	0.088	0.091	0.266
True Value QC		0.100	0.100	0.100	0.300
% Recovery		94.9	87.9	91.1	88.8
Relative Percent Difference		5.0	4.6	1.3	1.0

METHOD: EPA SW-846 8260

  
Chemist

11/27/02  
Date



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.

**ARDINAL LABORATORIES, INC.**

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

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

# ANALYTICAL REPORT

## Prepared for:

DONNIE ANDERSON  
RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

Project: Hobbs SWD System  
PO#: 737  
Order#: G0205162  
Report Date: 12/06/2002

E-4-2

## Certificates

US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

Order#: G0205162  
Project: Jct. E-4-2  
Project Name: Hobbs SWD System  
Location: Lea County, NM

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>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0205162-01	E-4-2 Btm Composite	SOIL	11/25/02	12/3/02 19:30	4 oz glass	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 18 C		
0205162-02	E-4-2 Wall Composite	SOIL	11/25/02	12/3/02 19:30	4 oz glass	None
	<u>Lab Testing:</u> Chloride	Rejected: No		Temp: 18 C		



# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

DONNIE ANDERSON  
RICE OPERATING CORP.  
122 WEST TAYLOR  
HOBBS, NM 88240

Order#: G0205162  
Project: Jct. E-4-2  
Project Name: Hobbs SWD System  
Location: Lea County, NM

Lab ID: 0205162-01  
Sample ID: E-4-2 Btm Composite

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	70.9	mg/kg	1	20	9253	12/6/02	SB

Lab ID: 0205162-02  
Sample ID: E-4-2 Wall Composite

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	70.9	mg/kg	1	20	9253	12/6/02	SB

Approval:

*Raland K. Tuttle* 12-09-02  
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.

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0205162

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003986-01			<20.0		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0205162-01	70.9	1000	1060	98.9%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0205162-01	70.9	1000	1060	98.9%	0.0%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003986-04		5000	4960	99.2%	

**12600 West I-20 East  
Odessa, Texas 79763**

# CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

**Project Manager: Donnie Anderson**

**Company Name** Rice Operating Company

**Company Address:** 122 W Taylor

**City/State/Zip:** Hobbs, NM 88240

**Telephone No: 505-393-917A**

**Fax No: 505-397-1471**

**Sampler Signature:**

**Project Name:** HOBBS SWD SYSTEM

**Project #:**

**Project Loc:** Lea County NM

PO #: 737

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