

1R - 426-55

**REPORTS**

**DATE:**

10/17/2002

IR-426-55

**FINAL  
REPORT**

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Blinebry-Drinkard	O-17	O	17	21 S	37 E	Lea	12'	6'	8'

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Millard-Deck Estate OTHER \_\_\_\_\_

Depth to Groundwater 70 feet NMOCD SITE ASSESSMENT RANKING SCORE: 10

Date Started 9/6/2002 Date Completed 9/18/2002 OCD Witness No

Soil Excavated 200 cubic yards Excavation Length 25 Width 16 Depth 14 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

**FINAL ANALYTICAL RESULTS:** Sample Date 9/17/2002 Sample Depth 14 ft BGS

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	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	369
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	1340
REMIEDIATED	<0.025	<0.025	<0.025	<0.025	<10.0	481	1350

General Description of Remedial Action: This location exhibited a vertical chloride decline, but TPH diminished vertically around 8 ft. TPH concentrations

continued to be minimal in all lateral directions.

A 25' x 16' area was excavated to a depth of 14' to ensure that all measurable TPH would be

removed, bottom and wall composite samples confirm this. The excavated soil was

remediated on location and backfilled with concentrations of 481 ppm TPH and 1350 ppm

chlorides. The remaining chloride concentration is not considered threatening to groundwater

because a compacted clay liner was installed to inhibit downward migration and the surface is

expected to re-vegetate. At 4' BGS, the 1' clay liner was installed and extended to connect with

another junction box (O-17-2) that was remediated at the same time (see attached diagram).

The top 3' of the excavation was backfilled with the blended soil. A water-tight junction box

has since been built at this location.

cc: lab results, diagram

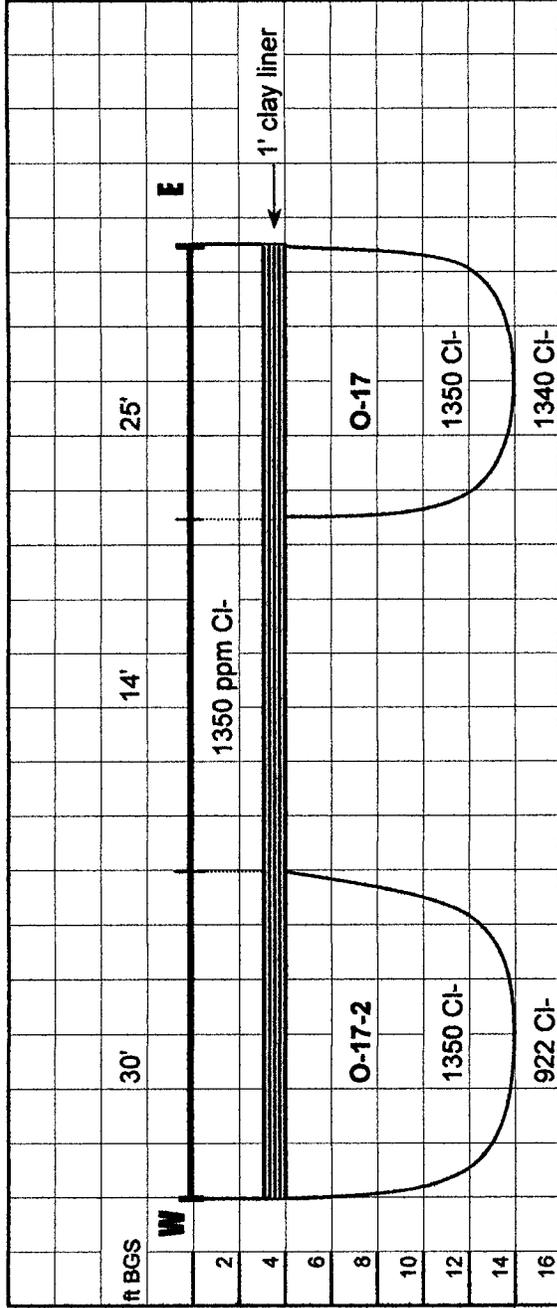
**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	ppm
Vertical	5	2061
	7	612
	9	762
	11	1551
	13	1748

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

DATE 10-17-02 PRINTED NAME Kristin Farris  
SIGNATURE Kristin Farris TITLE Environmental Projects Scientist

# BD O-17 O-17-2



old  
0-17  
btm + Wall

## ANALYTICAL REPORT

**Prepared for:**

LOGAN ANDERSON  
RE ENVIRONMENTAL  
P.O. BOX 13418  
ODESSA, TX 79768

**Project:** Rice

**PO#:**

**Order#:** G0204542

**Report Date:** 09/24/2002

**Certificates**

US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

RE ENVIRONMENTAL  
P.O. BOX 13418  
ODESSA, TX 79768  
366-0804

Order#: G0204542  
Project:  
Project Name: Rice  
Location: O-17 (Old)

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>
0204542-01	5 pt. Bottom Comp. @ 14'	SOIL	9/17/02 11:00	9/18/02 8:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0204542-02	4 pt. Wall Comp. @ 13'	SOIL	9/17/02 11:00	9/18/02 8:45	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.5 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

LOGAN ANDERSON  
RE ENVIRONMENTAL  
P.O. BOX 13418  
ODESSA, TX 79768

Order#: G0204542  
Project:  
Project Name: Rice  
Location: O-17 (Old)

Lab ID: 0204542-01  
Sample ID: 5 pt. Bottom Comp. @ 14'

### 8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		9/18/02	1	1	CK	8015M

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

### 8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0003198-02		9/21/02 1:55	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	101%	80	120
Bromofluorobenzene	97%	80	120

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

LOGAN ANDERSON  
 RE ENVIRONMENTAL  
 P.O. BOX 13418  
 ODESSA, TX 79768

Order#: G0204542  
 Project:  
 Project Name: Rice  
 Location: O-17 (Old)

Lab ID: 0204542-02  
 Sample ID: 4 pt. Wall Comp. @ 13'

### 8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>CK</u>	<u>8015M</u>
		9/18/02	1	1	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

### 8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>CK</u>	<u>8021B</u>
0003198-02		9/21/02 2:18	1	25	CK	

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	106%	80	120
Bromofluorobenzene	102%	80	120

Approval:  9/25/02  
 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.

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

LOGAN ANDERSON  
RE ENVIRONMENTAL  
P.O. BOX 13418  
ODESSA, TX 79768

Order#: G0204542  
Project:  
Project Name: Rice  
Location: O-17 (Old)

Lab ID: 0204542-01  
Sample ID: 5 pt. Bottom Comp. @ 14'

### Test Parameters

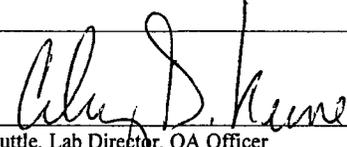
<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Analyzed</u>	<u>Analyst</u>
Chloride	1340	mg/kg	1	20.0	9253	9/20/02	CK

Lab ID: 0204542-02  
Sample ID: 4 pt. Wall Comp. @ 13'

### 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	369	mg/kg	1	20.0	9253	9/20/02	CK

Approval:

  
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.

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8015M

Order#: G0204542

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003181-02			<10.0		
<b>CONTROL</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003181-03		952	1120	117.6%	
<b>CONTROL DUP</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003181-04		952	1120	117.6%	0%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003181-05		1000	1120	112.0%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

**8021B/5030 BTEX**

Order#: G0204542

<b>BLANK</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-mg/kg		0003198-02			<0.025		
Ethylbenzene-mg/kg		0003198-02			<0.025		
Toluene-mg/kg		0003198-02			<0.025		
p/m-Xylene-mg/kg		0003198-02			<0.025		
o-Xylene-mg/kg		0003198-02			<0.025		
<b>MS</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-mg/kg		0204546-03	0	0.1	0.102	102.0%	
Ethylbenzene-mg/kg		0204546-03	0	0.1	0.108	108.0%	
Toluene-mg/kg		0204546-03	0	0.1	0.108	108.0%	
p/m-Xylene-mg/kg		0204546-03	0	0.2	0.226	113.0%	
o-Xylene-mg/kg		0204546-03	0	0.1	0.106	106.0%	
<b>MSD</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-mg/kg		0204546-03	0	0.1	0.100	100.0%	2.0%
Ethylbenzene-mg/kg		0204546-03	0	0.1	0.109	109.0%	0.9%
Toluene-mg/kg		0204546-03	0	0.1	0.104	104.0%	3.8%
p/m-Xylene-mg/kg		0204546-03	0	0.2	0.225	112.5%	0.4%
o-Xylene-mg/kg		0204546-03	0	0.1	0.105	105.0%	0.9%
<b>SRM</b>		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
SOIL							
Benzene-mg/kg		0003198-05		0.1	0.101	101.0%	
Ethylbenzene-mg/kg		0003198-05		0.1	0.105	105.0%	
Toluene-mg/kg		0003198-05		0.1	0.107	107.0%	
p/m-Xylene-mg/kg		0003198-05		0.2	0.218	109.0%	
o-Xylene-mg/kg		0003198-05		0.1	0.104	104.0%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0204542

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003189-01			<20.0		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204538-01	19500	10000	28000	85.0%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204538-01	19500	10000	28500	90.0%	1.8%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003189-04		5000	4960	99.2%	



0-17 + 0-17-2  
Remediated

## **ANALYTICAL REPORT**

### **Prepared for:**

**LOGAN ANDERSON  
RE ENVIRONMENTAL  
P.O. BOX 13418  
ODESSA, TX 79768**

**Project:** Rice  
**PO#:**  
**Order#:** G0204605  
**Report Date:** 09/30/2002

### **Certificates**

**US EPA Laboratory Code TX00158**

# ENVIRONMENTAL LAB OF TEXAS

## SAMPLE WORK LIST

RE ENVIRONMENTAL  
P.O. BOX 13418  
ODESSA, TX 79768  
366-0804

Order#: G0204605  
Project:  
Project Name: Rice  
Location: O-17

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>
0204605-01	Remediated Composite Pile	SOIL	9/24/02 14:00	9/25/02 8:00	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 13 C		

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

LOGAN ANDERSON  
RE ENVIRONMENTAL  
P.O. BOX 13418  
ODESSA, TX 79768

Order#: G0204605  
Project:  
Project Name: Rice  
Location: O-17

Lab ID: 0204605-01  
Sample ID: Remediated Composite Pile

### 8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		9/25/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	481	10.0
TOTAL, C6-C35	481	10.0

### 8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0003253-02		9/29/02 21:04	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	95%	80	120
Bromofluorobenzene	96%	80	120

Approval: *Roland K Tuttle*  
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.

*9-30-02*  
Date

# ENVIRONMENTAL LAB OF TEXAS

## ANALYTICAL REPORT

LOGAN ANDERSON  
RE ENVIRONMENTAL  
P.O. BOX 13418  
ODESSA, TX 79768

Order#: G0204605  
Project:  
Project Name: Rice  
Location: O-17

Lab ID: 0204605-01  
Sample ID: Remediated Composite Pile

### Test Parameters

<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>Dilution</u> <u>Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Chloride	1350	mg/kg	1	20	9253	9/27/02	SB

Approval: Raland K. Tuttle 9-30-02  
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.

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8015M

Order#: G0204605

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003235-02			<10.0		
<b>CONTROL</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003235-03		952	1120	117.6%	
<b>CONTROL DUP</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003235-04		952	1200	126.1%	6.9%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003235-05		1000	1220	122.%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204605

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003253-02			<0.025		
		0003253-02			<0.025		
		0003253-02			<0.025		
		0003253-02			<0.025		
		0003253-02			<0.025		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0204592-05	0	0.1	0.098	98.0%	
		0204592-05	0	0.1	0.100	100.0%	
		0204592-05	0	0.1	0.100	100.0%	
		0204592-05	0	0.2	0.212	106.0%	
		0204592-05	0	0.1	0.100	100.0%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0204592-05	0	0.1	0.099	99.0%	1.0%
		0204592-05	0	0.1	0.102	102.0%	2.0%
		0204592-05	0	0.1	0.102	102.0%	2.0%
		0204592-05	0	0.2	0.217	108.5%	2.3%
		0204592-05	0	0.1	0.103	103.0%	3.0%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
		0003253-05		0.1	0.100	100.0%	
		0003253-05		0.1	0.103	103.0%	
		0003253-05		0.1	0.103	103.0%	
		0003253-05		0.2	0.218	109.0%	
		0003253-05		0.1	0.103	103.0%	

# ENVIRONMENTAL LAB OF TEXAS

## QUALITY CONTROL REPORT

### Test Parameters

Order#: G0204605

<b>BLANK</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003244-01			<20.0		
<b>MS</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204605-01	1350	1000	2340	99.%	
<b>MSD</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204605-01	1350	1000	2320	97.%	0.9%
<b>SRM</b>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003244-04		5000	4960	99.2%	



BD jct. O-17



Before Remediation



NORM Removal

**BD jct. O-17**



Impact excavation from new jct. O-17



Impact excavation from old jct. O-17 location

BD jct. O-17



Excavation clay-lined and Backfilled



Complete Box

**BD O-17 jct. box**



Clay Liner Connecting Sites

**RICE OPERATING COMPANY  
JUNCTION BOX FINAL REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
BD	O-17	O	17	22S	37E	LEA	6'	5'	5'

Land Type: BLM  STATE  FEE LANDOWNER Millard Deck Estate OTHER \_\_\_\_\_

Depth to Groundwater 64' feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 03/01/2001 Date Completed 03/26/2001 OCD Witness No

Soil Excavated 72 cubic yards Excavation Length 15' Width 15' Depth 8 1/2' feet

Soil Disposed 72 cubic yards Offsite Facility Sundance Disposal Location Eunice N.M.

**FINAL ANALYTICAL RESULTS:** Sample Date March 26, 2001 Sample Depth 8 1/2'

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	<50	<50	2200
BOTTOM	<0.005	<0.005	<0.005	0.017	<50	<50	96

General Description of Remedial Action: Delineate vertical and lateral extent to below the NMOCD guidelines. Hauled off high impacted soil to Sundance Disposal Facility. Installed a compact clay liner followed by a water tight Junction box and then backfilled.

**CHLORIDE FIELD TESTS**

LOCATION	DEPTH	mg/kg
4 wall comp	2' to 5'	1150 ppm
East Wall	2' to 5'	650 ppm
West Wall	2' to 5'	1800 ppm
South Wall	2' to 5'	1200 ppm
North Wall	2' to 5'	990 ppm
bottom of Jct	5'	990 ppm
bottom of Jct	8 1/2'	100 ppm

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

DATE 03/26/2001 PRINTED NAME Chris Rodriguez  
SIGNATURE *Chris Rodriguez* TITLE ENVIRONMENTAL TECHNICIAN



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: CHRIS RODRIQUEZ  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO:**

**Receiving Date: 03/26/01  
Reporting Date: 03/28/01  
Project Number: NOT GIVEN  
Project Name: JCT 0-17  
Project Location: BD SEC 17 T22 R37**

**Sampling Date: 03/26/01  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC/AH**

LAB NUMBER SAMPLE ID	GRO	DRO	CF
	(C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	(mg/Kg)
ANALYSIS DATE	03/27/01	03/27/01	03/27/01
H5736-1 WALL COMPOSITE	<50	<50	2200
H5736-2 BOTTOM	<50	<50	98
Quality Control	716	801	980
True Value QC	800	800	1000
% Recovery	89.5	100	98.0
Relative Percent Difference	1.7	1.9	1.0

**METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CF: Std. Methods 4500-C1B**

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

*Rufeddy P. Cooke*  
\_\_\_\_\_  
Chemist

*3/28/01*  
\_\_\_\_\_  
Date

**H5736A.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.



# ARDINAL LABORATORIES

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

PHONE (505) 393-2328 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
RICE OPERATING CO.  
ATTN: CHRIS RODRIQUEZ  
122 W. TAYLOR  
HOBBS, NM 88240  
FAX TO:

Receiving Date: 03/26/01  
Reporting Date: 03/28/01  
Project Number: NOT GIVEN  
Project Name: JCT 0-17  
Project Location: BD SEC 17 T22 R37

Sampling Date: 03/26/01  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		03/26/01	03/26/01	03/26/01	03/26/01
H5736-1	WALL COMPOSITE	<0.005	<0.005	<0.005	0.015
H5736-2	BOTTOM	<0.005	<0.005	<0.005	0.017
Quality Control		0.108	0.105	0.108	0.317
True Value QC		0.100	0.100	0.100	0.300
% Recovery		108	105	108	108
Relative Percent Difference		2.2	0.9	2.7	2.4

METHOD: EPA SW-846 8260

Bryant J. Cook  
Chemist

3/28/01  
Date

H5736B.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.



# ARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Maryland, Hobbs, NM 88240  
(815) 673-7001 Fax (815) 673-7020 (805) 393-2328 Fax (805) 393-2478

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page      of     

Company Name: <u>Rice Operating</u>		P.O. #																																													
Project Manager: <u>Chris Rodriguez</u>		Company: <u>Rice</u>																																													
Address: <u>522 W. Taylor</u>		City: <u>Hobbs</u>																																													
City: <u>Hobbs</u>		State: <u>N.M.</u> Zip: <u>71240</u>																																													
Phone #: <u>393-9174</u>		Fax #: <u>    </u>																																													
Project #: <u>    </u>		Project Owner: <u>    </u>																																													
Project Name: <u>Set 0-17</u>		State: <u>N.M.</u> Zip: <u>71240</u>																																													
Project Location: <u>BD SEC 17 T22 R37</u>		City: <u>Hobbs</u>																																													
Sample Name: <u>    </u>		Phone #: <u>393-9174</u>																																													
Matrix: <u>    </u>		PRESERV: <u>    </u> SAMPLING: <u>    </u>																																													
Lab ID: <u>HS736-1</u>	Sample ID: <u>WALL CONTAINER</u>	ANALYSIS REQUEST																																													
<u>2</u>	<u>18/10/01</u>																																														
<table border="1"> <tr> <td>(G)RAB OR (C)OMP.</td> <td><input checked="" type="checkbox"/></td> <td>DATE</td> <td>TIME</td> </tr> <tr> <td># CONTAINERS</td> <td><u>1</u></td> <td><u>3/26/01</u></td> <td><u>8</u></td> </tr> <tr> <td>GROUNDWATER</td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>WASTEWATER</td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>SOIL</td> <td><input checked="" type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>CRUDE OIL</td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>SLUDGE</td> <td><input type="checkbox"/></td> <td></td> <td></td> </tr> <tr> <td>OTHER:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ACID/BASE:</td> <td></td> <td></td> <td></td> </tr> <tr> <td>ICE/COOL</td> <td></td> <td></td> <td></td> </tr> <tr> <td>OTHER:</td> <td></td> <td></td> <td></td> </tr> </table>		(G)RAB OR (C)OMP.	<input checked="" type="checkbox"/>	DATE	TIME	# CONTAINERS	<u>1</u>	<u>3/26/01</u>	<u>8</u>	GROUNDWATER	<input type="checkbox"/>			WASTEWATER	<input type="checkbox"/>			SOIL	<input checked="" type="checkbox"/>			CRUDE OIL	<input type="checkbox"/>			SLUDGE	<input type="checkbox"/>			OTHER:				ACID/BASE:				ICE/COOL				OTHER:				<u>BTEX, @ISH, U</u>	
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Checked By: (Circle One) <input type="checkbox"/> Yes <input type="checkbox"/> No		Checked By: (Print Name) <u>    </u>																																													
Remarks:		Remarks:																																													

† Cardinal cannot accept verbal changes. Please fax written changes to 805-393-2478.

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231  
(505) 394-2511

33835

LEASE OPERATOR/SHIPPER/COMPANY: NICE

LEASE NAME: W. SWAN 307 0-17

TRANSPORTER COMPANY: WITCO

TIME:

AM/PM

DATE: 3-18-01

VEHICLE NO.:

DRIVER NO.:

CHARGE TO: NICE

## TYPE OF MATERIAL

SEC 17 TDS ASR

Production Water

Drilling Fluids

Completion Fluids

Tank Bottoms

Contaminated soil

C-117 No.: \_\_\_\_\_

Other Material:

BS&W Content: \_\_\_\_\_

Description: Oil

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :

YARD 10 :

\_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

*THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.*

DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231  
(505) 394-2511

112 33539

LEASE OPERATOR/SHIPPER/COMPANY: Price

LEASE NAME: Job 0-17

TRANSPORTER COMPANY: Price

TIME:

AM/PM

DATE:

VEHICLE NO.:

DRIVER NO.:

CHARGE TO:

## TYPE OF MATERIAL

Production Water

Drilling Fluids

Completion Fluids

Tank Bottoms

Contaminated soil

C-117 No.:

Other Material:

BS&W Content: \_\_\_\_\_

Description: soil

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :

YARD 12 :

\_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231  
(505) 394-2511

110 38632  
240

LEASE OPERATOR/SHIPPER/COMPANY: ACE

LEASE NAME: Oilwell 30-0-17

TRANSPORTER COMPANY: D. ...

TIME:

AM/PM

DATE:

VEHICLE NO.: 21

DRIVER NO.:

CHARGE TO: ACE

## TYPE OF MATERIAL

- Production Water
- Tank Bottoms
- Other Material:

- Drilling Fluids
- Contaminated soil
- BS&W Content: \_\_\_\_\_

- Completion Fluids
- C-117 No.: \_\_\_\_\_

Description: 0/0

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :

YARD 15 :

\_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231  
(505) 394-2511

3881

LEASE OPERATOR/SHIPPER/COMPANY:

LEASE NAME:

TRANSPORTER COMPANY:

TIME:

AM/PM

DATE:

VEHICLE NO.:

DRIVER NO.:

CHARGE TO:

## TYPE OF MATERIAL

Production Water

Drilling Fluids

Completion Fluids

Tank Bottoms

Contaminated soil

C-117 No.: \_\_\_\_\_

Other Material:

BS&W Content: \_\_\_\_\_

Description: \_\_\_\_\_

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD \_\_\_\_\_ :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_

(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_

(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter  
Revised 12/27/95

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231  
(505) 394-2511

111 38813

LEASE OPERATOR/SHIPPER/COMPANY: R. J. H.

LEASE NAME: B. J. S. D. J. T. O. - 17 SFC 17.72.25 7 725

TRANSPORTER COMPANY: 111-1111

TIME: \_\_\_\_\_ AM/PM

DATE: 3-12-95

VEHICLE NO.: 5

DRIVER NO.:

CHARGE TO: 111-1111

## TYPE OF MATERIAL

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids              | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms     | <input checked="" type="checkbox"/> Contaminated soil | <input type="checkbox"/> C-117 No.: _____  |
| <input type="checkbox"/> Other Material:  | <input type="checkbox"/> BS&W Content: _____          |  |

Description: 0.0

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HERewith IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_  
(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_  
(SIGNATURE)

# Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231  
(505) 394-2511

ATC 693

38612

LEASE OPERATOR/SHIPPER/COMPANY: Oil

LEASE NAME: H.M. 520 ICF 0-17

TRANSPORTER COMPANY: Del-Jack

TIME: \_\_\_\_\_ AM/PM

DATE: 12-2 VEHICLE NO.: 5

DRIVER NO.:

CHARGE TO: Oil

## TYPE OF MATERIAL 52017 7205 A372

- |   |  |  |
|---|--|--|
| <input type="checkbox"/> Production Water | <input type="checkbox"/> Drilling Fluids     | <input type="checkbox"/> Completion Fluids |
| <input type="checkbox"/> Tank Bottoms     | <input type="checkbox"/> Contaminated soil   | <input type="checkbox"/> C-117 No.: _____  |
| <input type="checkbox"/> Other Material:  | <input type="checkbox"/> BS&W Content: _____ |  |

Description: Oil

VOLUME OF MATERIAL  BBLs. \_\_\_\_\_ :  YARD 12 :  \_\_\_\_\_

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

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DRIVER: \_\_\_\_\_  
(SIGNATURE)

FACILITY REPRESENTATIVE: \_\_\_\_\_  
(SIGNATURE)