

1R - 426-35

REPORTS

DATE:

1/12/2006

1R0426-35

Closed

Final Report

RICE OPERATING COMPANY

JUNCTION BOX FINAL REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY
BD	jct. I-27	I	27	21S	37E	Lea

LANDOWNER:

City of Eunice, NM

Depth to Groundwater 45 feet

NMOCD SITE ASSESSMENT RANKING SCORE: 20

General Description of Remedial Action:

For a summary of the junction box remediation and upgrade activities, refer to the previously-

submitted Junction Box Disclosure Report (10/30/2002).

Since the remediation and upgrade at this junction box site, ROC has monitored groundwater quality at a monitoring well installed as part of the junction box remediation. The consulting firm of Arcadis G & M of Midland, Texas was contracted to address groundwater concerns at the site.

On 1/3/2006, OCD GRANTED CLOSURE OF THE REGULATORY FILE FOR THIS SITE AND REQUIRES NO FURTHER ACTION.

enclosures: Disclosure Report, closure correspondence

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

REPORT ASSEMBLED BY Kristin Farris Pope

SIGNATURE

Kristin Farris Pope

DATE 1/12/2006

TITLE Project Scientist

Kristin Farris Pope

From: "Price, Wayne, EMNRD" <wayne.price@state.nm.us>
To: "Hall, Sharon E." <Shall@arcadis-us.com>
Cc: <kpriceswd@valornet.com>
Sent: Tuesday, January 03, 2006 8:38 AM
Subject: RE: ROC BDI-27, NMOCD case # 1R0426-35 Closure Request

OCD hereby approves closure and requires no further action.

Please be advised that NMOCD approval of this plan does not relieve ROC of Responsibility should their operations fail to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD approval does not relieve ROC of responsibility for compliance with any other federal, state, or local laws and/or regulations.

From: Hall, Sharon E. [mailto:Shall@arcadis-us.com]
Sent: Tuesday, January 03, 2006 8:12 AM
To: Price, Wayne, EMNRD
Cc: kpriceswd@valornet.com
Subject: FW: ROC BDI-27, NMOCD case # 1R0426-35 Closure Request

Happy new year Wayne. I hope you and yours had a wonderful holiday season. Can you tell me the status of this closure request? Please let me know if you need additional information. Regards, Sharon

From: Hall, Sharon E.
Sent: Tuesday, October 18, 2005 4:24 PM
To: Hall, Sharon E.; Roger Anderson (rcanderson@state.nm.us); Wayne Price (wayne.price@state.nm.us)
Cc: Daniel Sanchez (DJSanchez@state.nm.us); Paul Sheeley (paul.sheeley@state.nm.us); Larry Johnson (lwjohnson@state.nm.us); Kristin Farris Pope (kpriceswd@valornet.com)
Subject: RE: ROC BDI-27, NMOCD case # 1R0426-35 Closure Request

Roger and Wayne, respectfully submitted on behalf of ROC is the attached closure request for the above-referenced site. I am sending a hard copy to Roger via registered mail and hard copies to Wayne and Daniel via US mail. The hard copy will include the photos and Well Plugging Report (the files are too big to e-mail and got kicked back). If you have any questions or need additional information please contact Kristin Farris Pope or me. Regards, Sharon Hall

Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message. -- This email has been scanned by the Sybari - Antigen Email System.

1/18/2006



Mr. Roger Anderson
Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 So. Saint Francis Drive
Santa Fe, New Mexico 87505

ARCADIS G&M, Inc.
1004 North Big Spring Street
Suite 300
Midland,
Texas 79701
Tel 432 687 5400
Fax 432 687 5401
www.arcadis-us.com

Environmental

Subject:
BD Junction I-27, NMOCD Case No. 1R0426-35

Dear Mr. Anderson:

Date:
18 October 2005

On behalf of Rice Operating Company (ROC), ARCADIS respectfully requests your approval of closure of the above-referenced site. Your letter dated July 21, 2005 requested two conditions required for approval. Your request and our fulfillment of the request are as follows:

Contact:
Sharon Hall

Phone:
432 687-5400

1. Please provide documentation showing how ROC plans to implement institutional and/or engineering controls to protect the liner in the foreseeable future.

Email:
shall@arcadis-us.com

The corners of the liner will be marked with signs reading "RICE Poly liner at 11 ft." ROC will inspect the site periodically as part of their routine operations.

Our ref:
MT000858

2. Please provide documentation showing that monitor well has been properly plugged and abandoned.

Attached is the *New Mexico Office of the State Engineer Well Record* plugging report that has been submitted to the State Engineer's office. Also attached are photos of plugging activities.

As customary for the ROC Junction Box sites ROC will submit a Junction Box Closure Form for the site with the 2005 annual reports.

If you have any questions regarding this request for site closure please do not hesitate to call Kristin Farris Pope at (505) 393-9174 or me at (432) 687-5400.

Sincerely,

ARCADIS G&M, Inc.

Part of a bigger picture

ARCADIS

Mr. Roger Anderson
18 October 2005

Sharon E. Hall
Site Evaluation Department Manager

Attachments:
Site photographs
Well Plugging Report

Copies:
Mr. Wayne Price, NMOCD
Mr. Daniel Sanchez, NMOCD
Kristin Farris Pope, ROC

Kristin Farris Pope

From: "Hall, Sharon E." <Shall@arcadis-us.com>
To: "Hall, Sharon E." <Shall@arcadis-us.com>; <rcanderson@state.nm.us>; <wayne.price@state.nm.us>
Cc: <DJSanchez@state.nm.us>; <paul.sheeley@state.nm.us>; <lwjohnson@state.nm.us>;
<kpriceswd@valornet.com>
Sent: Tuesday, October 18, 2005 2:23 PM
Attach: Closure Request letter.doc
Subject: RE: ROC BDI-27, NMOCD case # 1R0426-35 Closure Request

Roger and Wayne, respectfully submitted on behalf of ROC is the attached closure request for the above-referenced site. I am sending a hard copy to Roger via registered mail and hard copies to Wayne and Daniel via US mail. The hard copy will include the photos and Well Plugging Report (the files are too big to e-mail and got kicked back). If you have any questions or need additional information please contact Kristin Farris Pope or me. Regards, Sharon Hall

1/18/2006

**RICE OPERATING COMPANY
JUNCTION DISCLOSURE REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
BD	I-27	I	27	21S	37E	LEA	Length	Width	Depth

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER _____ CITY OF EUNICE _____ OTHER _____

Depth to Groundwater 45' feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 10/7/2002 Date Completed 10/15/2002 OCD Witness NO

Soil Excavated 2300 cubic yards Excavation Length 90 Width 60 Depth 15 feet

Soil Disposed 0 cubic yards Offsite Facility _____ Location _____

FINAL ANALYTICAL RESULTS: Sample Date 10/10/2002 Sample Depth 15'

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 15'	<0.025	<0.025	<0.025	<0.025	<10	<10	2500
BOTTOM 15'	<0.025	<0.025	<0.025	<0.025	<10	<10	1500
SIDEWALLS 10'	<0.025	<0.025	<0.025	<0.025	<10	<10	425
BOTTOM 11'	<0.025	<0.025	<0.025	<0.025	<10	<10	213
Remediated Soil	<0.025	<0.025	<0.025	<0.025	<10	22.9	417

General Description of Remedial Action: Vertical and lateral delineation found an area

Impacted with TPH and chlorides. TPH Impacted soil was excavated to 15' bgs in an area 20' by
20' and land farmed on-site. Chlorides were removed to 11' bgs in an area 90' by 60'. Clean
backfill was placed in the deep excavation from 15' bgs to 11' bgs. A 20 mil poly liner was
installed at 11' bgs. This poly liner will inhibit the vertical transmissivity of the soil constituents
and ensure no detrimental effects to the groundwater. The remediated soil was placed in the
excavation in 3' lifts. A monitor well was installed 20' down gradient of the old junction box site to
monitor groundwater constituents. An annual report with sampling results will be sent to the
NMOCD. This site will be seeded in the spring of 2003. This site is no longer a junction and
no box is required.

TPH/CHLORIDE FIELD TESTS

LOCATION	Depth	TPH	mg/kg
SIDEWALLS	15'	22	2350
BOTTOM	15'	91	1470
Remediated Soil	comp	82	400
Vertical Trench	3'	5920	N/A
	11'	22,480	N/A
	15'	904	N/A
	17'	68	2270
	23'	N/A	2670
	27'	N/A	3100
	30	N/A	5950

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

DATE October 30, 2002 PRINTED NAME D. E. Anderson
SIGNATURE *D. E. Anderson* TITLE Project Leader - Environmental

L. Goodheart ☒ C. Haynes ☐ S. Curtis ☐
J. Rompene ☐ D. Armandarez ☐ N. Carmona ☐ R. Anderson ☐ G. Gleda ☐
~~W. Peterson~~ ~~P. Farris~~ ~~B. Rodriguez~~

Rice Operating Company

122 West Taylor • Hobbs, New Mexico 88240
Phone: (505)393-9174 • Fax: (505) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7000 1530 0005 9895 4657

December 13, 2002

Mr. Roger Anderson
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

RE: NOTIFICATION OF GROUNDWATER IMPACT
EUNICE MONUMENT EUMONT (EME) and BLINEBRY-DRINKARD (BD) SWD SYSTEMS
Lea County, NM

Mr. Anderson:

Rice Operating Company (ROC) takes this opportunity to notify the Director of the NMOCD, Environmental Bureau of groundwater impact in accordance with NM Rule 116. The attached document contains a list of the sites that qualify for this notification. The remediation of these sites may fall under NM Rule 19 procedures.

ROC is the service provider (operator) for the EME and BD Salt Water Disposal Systems and has no ownership of any portion of the pipelines, wells, or facilities. The EME and BD Systems are owned by a consortium of oil producers, System Partners, who provide all operating capital on a percentage ownership/usage basis. Environmental remediation projects of this magnitude may require System Partner AFE approval and work begins as funds are received.

Please accept this notification for the attached sites.

RICE OPERATING COMPANY

Kristin Farris

Kristin Farris
Project Scientist

Attachment – Site Listings
Cc: LBG, CDH, SC, file

Mr. Chris Williams
NMOCD, District 1 Office
1625 N. French Drive
Hobbs, NM 88240

RICE Operating Company

Groundwater Impact (mg/L)

SYSTEM	SITE NAME	UNIT	SEC	T	R	SAMPLE DATE	TDS	Chloride	Benzene	Toluene	Ethyl Benzene	Total Xylenes
EME	H-13 leak	H	13	20S	36E	10/29/02	5180	1770	<0.001	<0.001	<0.001	<0.002
BD	I-27 jct.	I	27	21S	37E	12/02/02	1200	266	<0.001	<0.001	<0.001	<0.002
BD	F-17 jct.	F	17	21S	37E	12/02/02	1020	354	<0.001	<0.001	<0.001	<0.002
BD	J-26 jct.	J	26	20S	37E	10/29/02	9020	4520	<0.001	<0.001	<0.001	<0.002

ANALYTICAL REPORT

Prepared for:

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

Project: I-27 Jct.
PO#: 505
Order#: G0205153
Report Date: 12/11/2002

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#: G0205153
Project: None Given
Project Name: I-27 Jct.
Location: BD

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>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0205153-01	MW 1	WATER	12/2/02	12/2/02	See COC	See COC
			12:10	20:40		
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.5 C		
	Cations					
	Alkalinity, Bicarbonate					
	Alkalinity, Carbonate					
	Alkalinity, Hydroxide					
	Chloride					
	SULFATE, 375.4					
	Total Dissolved Solids (TDS)					
0205153-02	MW 1	WATER	12/2/02	12/2/02	See COC	See COC
			12:10	20:40		
	<u>Lab Testing:</u>	Rejected: No		Temp: 3.5 C		
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0205153
Project: None Given
Project Name: I-27 Jct.
Location: BD

Lab ID: 0205153-02
Sample ID: MW 1

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0004008-02		12/9/02 14:17	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	94%	80	120

Approval: Raland K. Tuttle 12-11-02
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

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

Order#: G0205153
Project: None Given
Project Name: I-27 Jct.
Location: BD

Lab ID: 0205153-01
Sample ID: MW 1

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Alkalinity, Bicarbonate	360	mg/L as CaCO	1	2.00	310.1	12/10/02	SB
Alkalinity, Carbonate	<0.100	mg/L as CaCO	1	0.100	310.1	12/10/02	SB
Alkalinity, Hydroxide	<0.10	mg/L as CaCO	1	0.10	310.1	12/10/02	SB
Chloride	266	mg/L	1	5.00	9253	12/4/02	SB
SULFATE, 375.4	244	mg/L	5	2.5	375.4	12/10/02	SB
Total Dissolved Solids (TDS)	1200	mg/L	1	5.0	160.1	12/3/02	TAL

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.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0205153
Project: None Given
Project Name: I-27 Jct.
Location: BD

Lab ID: 0205153-01

Sample ID: MW 1

Cations

<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>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u>
Calcium	103	mg/L	100	1.0	6010B	12/10/2002	12/10/02	SM
Magnesium	60.7	mg/L	10	0.010	6010B	12/10/2002	12/10/02	SM
Potassium	7.34	mg/L	10	0.50	6010B	12/10/2002	12/10/02	SM
Sodium	133	mg/L	100	1.0	6010B	12/10/2002	12/10/02	SM

Approval: Raland K. Tuttle 12-11-02

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

8021B/5030 BTEX

Order#: G0205153

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0004008-02			<0.001		
Ethylbenzene-mg/L		0004008-02			<0.001		
Toluene-mg/L		0004008-02			<0.001		
p/m-Xylene-mg/L		0004008-02			<0.001		
o-Xylene-mg/L		0004008-02			<0.001		
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0205197-10	0	0.1	0.100	100.0%	
Ethylbenzene-mg/L		0205197-10	0	0.1	0.102	102.0%	
Toluene-mg/L		0205197-10	0	0.1	0.102	102.0%	
p/m-Xylene-mg/L		0205197-10	0	0.2	0.215	107.5%	
o-Xylene-mg/L		0205197-10	0	0.1	0.103	103.0%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0205197-10	0	0.1	0.100	100.0%	0.0%
Ethylbenzene-mg/L		0205197-10	0	0.1	0.100	100.0%	2.0%
Toluene-mg/L		0205197-10	0	0.1	0.101	101.0%	1.0%
p/m-Xylene-mg/L		0205197-10	0	0.2	0.207	103.5%	3.8%
o-Xylene-mg/L		0205197-10	0	0.1	0.101	101.0%	2.0%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Benzene-mg/L		0004008-05		0.1	0.097	97.0%	
Ethylbenzene-mg/L		0004008-05		0.1	0.100	100.0%	
Toluene-mg/L		0004008-05		0.1	0.100	100.0%	
p/m-Xylene-mg/L		0004008-05		0.2	0.214	107.0%	
o-Xylene-mg/L		0004008-05		0.1	0.104	104.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Cations

Order#: G0205153

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0004013-02			<0.010		
Magnesium-mg/L		0004013-02			<0.001		
Potassium-mg/L		0004013-02			<0.050		
Sodium-mg/L		0004013-02			<0.010		
DUPLICATE		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0205154-01	76.7		77.7		1.3%
Magnesium-mg/L		0205154-01	32.9		32.8		0.3%
Potassium-mg/L		0205154-01	7.08		7.16		1.1%
Sodium-mg/L		0205154-01	158		158		0.0%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	WATER						
Calcium-mg/L		0004013-05		2	2.07	103.5%	
Magnesium-mg/L		0004013-05		2	2.22	111.0%	
Potassium-mg/L		0004013-05		2	1.79	89.5%	
Sodium-mg/L		0004013-05		2	1.80	90.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0205153

BLANK						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Alkalinity, Bicarbonate-mg/L as CaCO	0004025-01			<2.00		
Alkalinity, Carbonate-mg/L as CaCO	0004026-01			<0.100		
Alkalinity, Hydroxide-mg/L as CaCO	0004027-01			<0.10		
Chloride-mg/L	0003965-01			<5.00		
SULFATE, 375.4-mg/L	0004028-01			<0.5		
Total Dissolved Solids (TDS)-mg/L	0003957-01			<5.0		
DUPLICATE						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Alkalinity, Bicarbonate-mg/L as CaCO	0205153-01	360		359		0.3%
Alkalinity, Carbonate-mg/L as CaCO	0205153-01	0		<0.100		0.0%
Alkalinity, Hydroxide-mg/L as CaCO	0205153-01	0		<0.10		0.0%
SULFATE, 375.4-mg/L	0205153-01	244		250		2.4%
Total Dissolved Solids (TDS)-mg/L	0205153-01	1200		1170		2.5%
MS						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0205115-01	461	500	948	97.4%	
MSD						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/L	0205115-01	461	500	957	99.2%	0.9%
SRM						
WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Alkalinity, Bicarbonate-mg/L as CaCO	0004025-04		0.05	0.0496	99.2%	
Alkalinity, Carbonate-mg/L as CaCO	0004026-04		0.05	0.0496	99.2%	
Alkalinity, Hydroxide-mg/L as CaCO	0004027-04		0.05	0.0496	99.2%	
Chloride-mg/L	0003965-04		5000	4960	99.2%	
SULFATE, 375.4-mg/L	0004028-04		50	51.6	103.2%	

12600 West I-20 East
Odessa, Texas 79763

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Kristin Ferris

Project Name: I-27 jct.

RICE Operating

Project #:

172 W. Taylor

Project Loc: BN

Hobbs. NM 88240

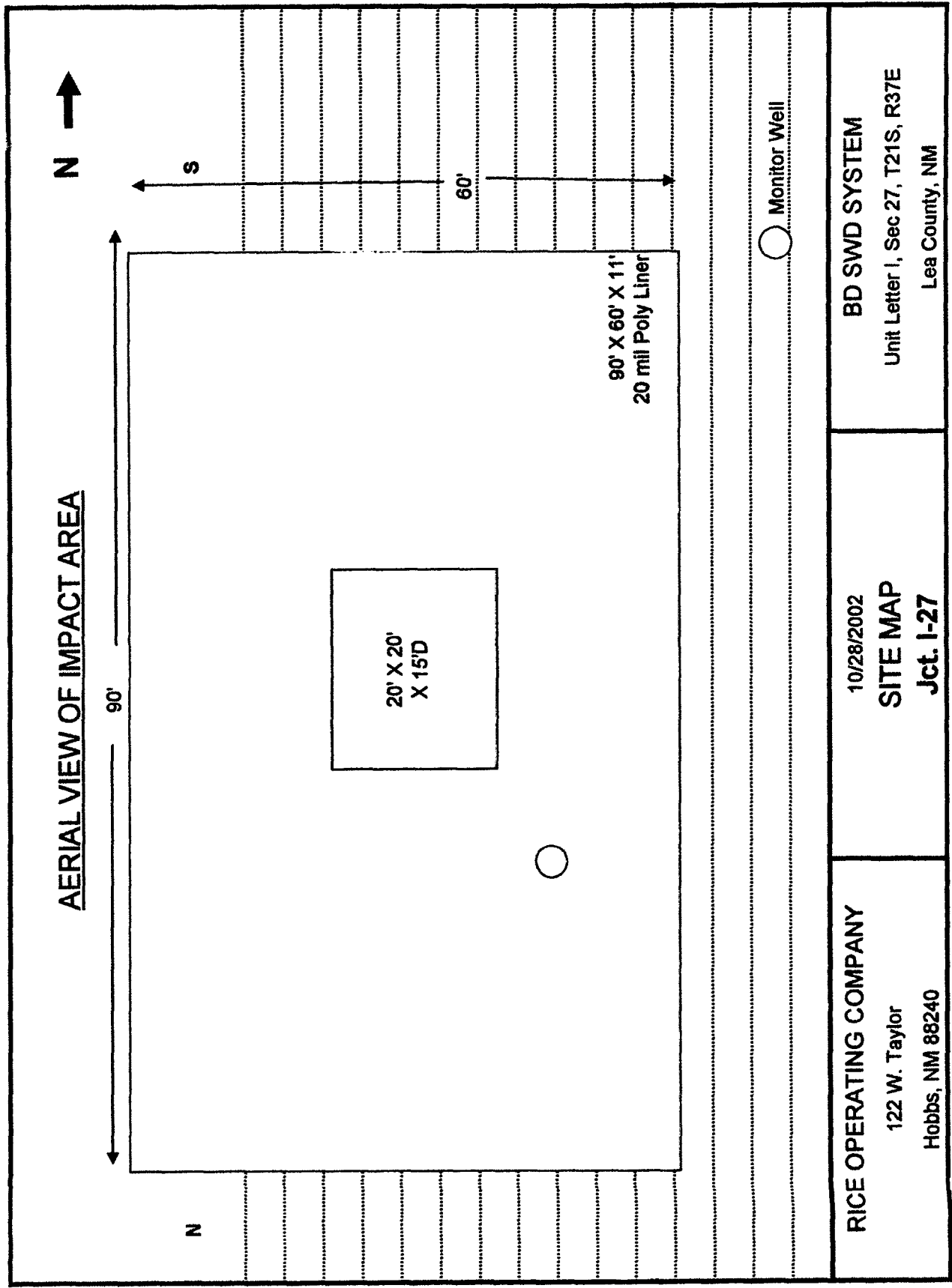
PO # 505

50.5) 393-9174

Fax No: (515) 397-1471

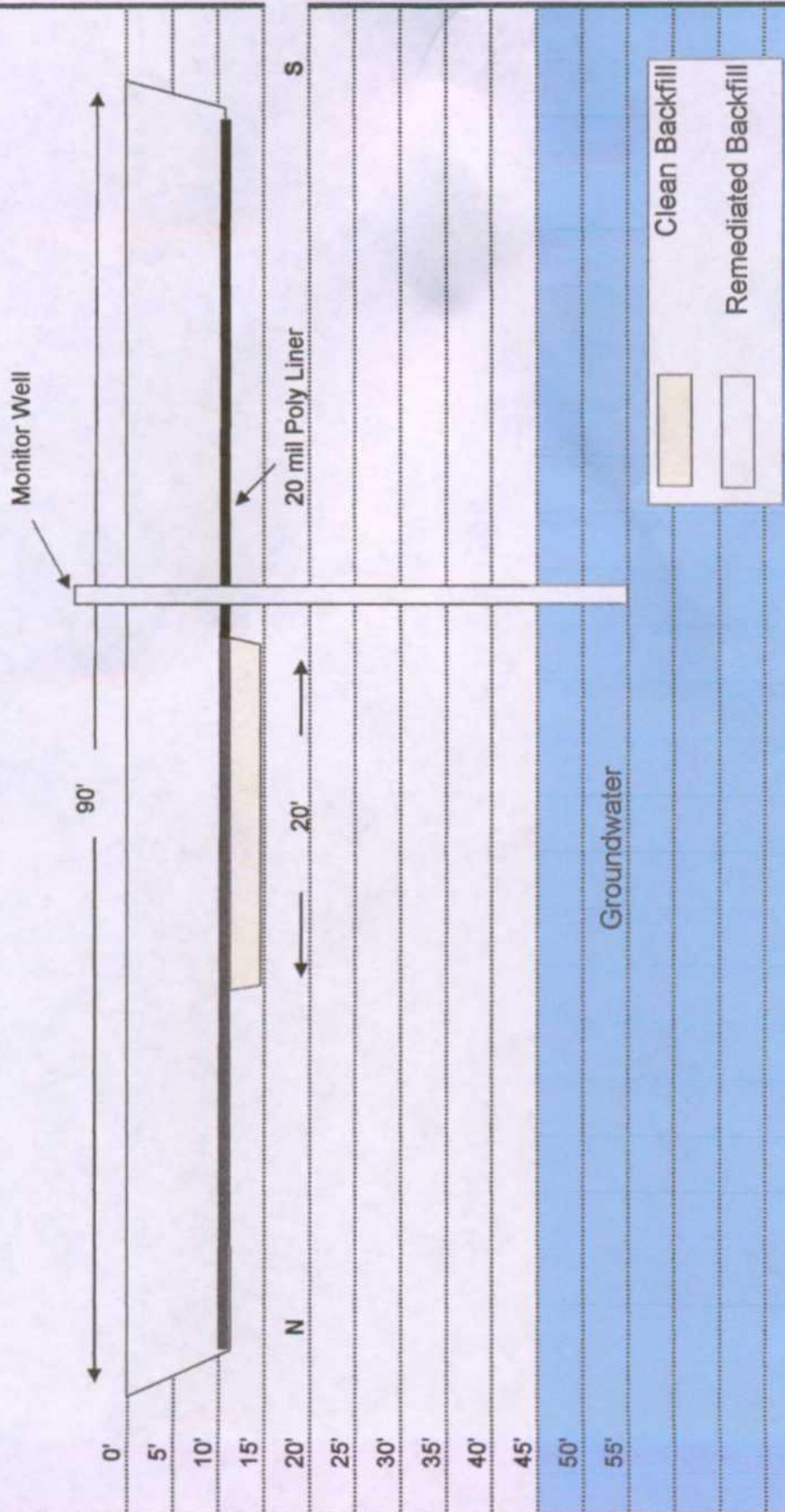
Shirley D. Smith

[illegible]

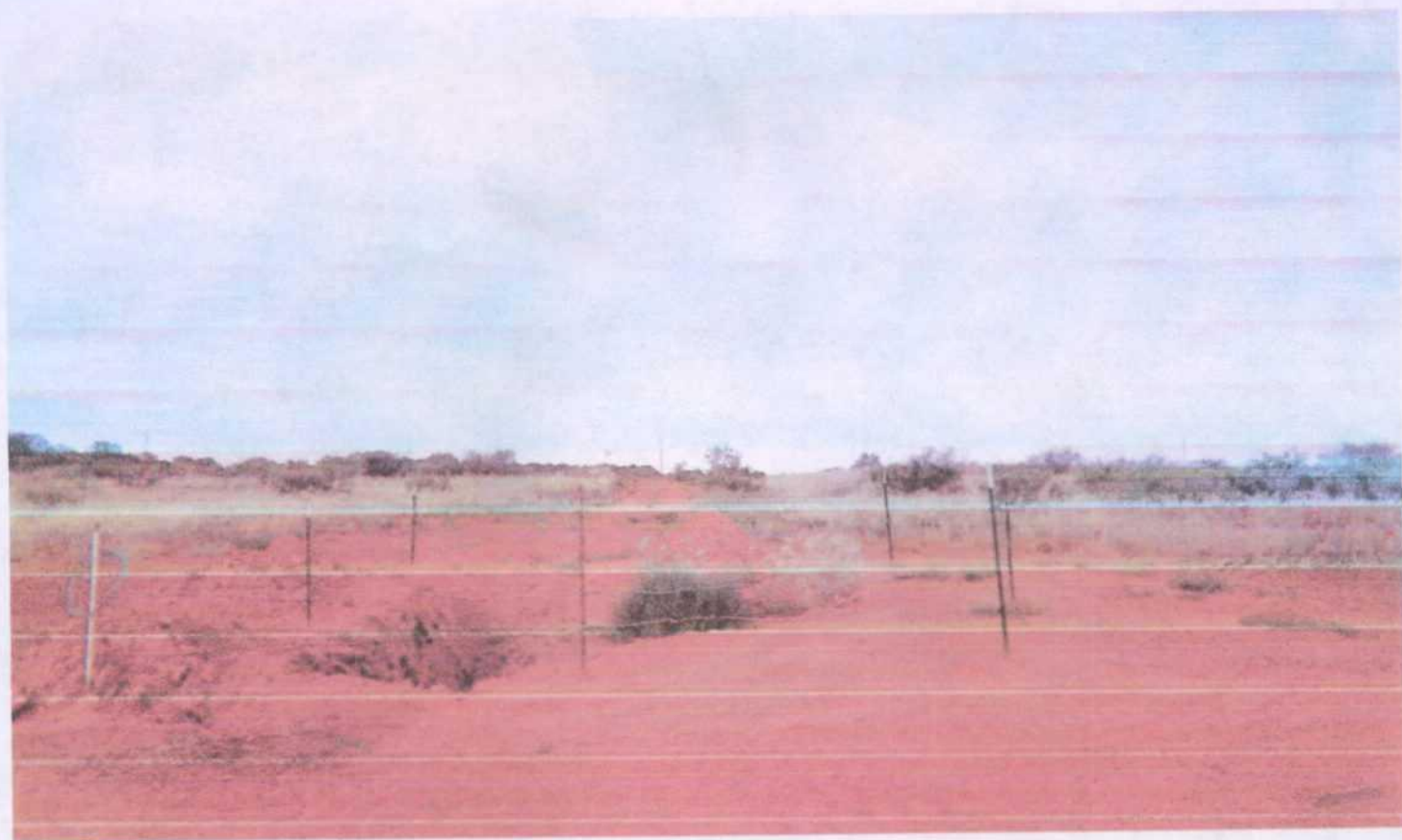


RICE OPERATING COMPANY 122 W. Taylor Hobbs, NM 88240	10/28/2002 SITE MAP Jct. I-27	BD SWD SYSTEM Unit Letter I, Sec 27, T21S, R37E Lea County, NM
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PROFILE VIEW OF IMPACT AREA



RICE OPERATING COMPANY 122 W. Taylor Hobbs, NM 88240	10/28/2002 SITE MAP Jct. I-27	BD SWD SYSTEM Unit Letter I, Sec 27, T21S, R37E Lea County, NM
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DEPTH	SUBSURFACE LITHOLOGY	SAMPLE TYPE	Test Results (ppm)		REMARKS	Boring
			CI	TPH		
0	Ground surface		Titrate	EPA 418.1		
	Top Soil					
5	Red Sand	Grab	783		grout	
10	Pink Sand	Grab	3,083			
15	Caliche and Sand Red Sand	Grab	1,065			2"
20	Sandy Clay Pink Clay	Grab	651			P
22	Caliche with Clay Stringers					V
25	Pink Sandy Loam	Grab	2,340			C
29	Sand				bentonite	
30		Grab	4,141			
35	Sand	Grab	3,993			
39	Sand and Sandstone Stringers					
40	Red Clay Loam	Grab	2,595			
45	Wet Loam	Grab	583		water	
50	Moist Loam	Grab	611			
55	Moist Sandy Clay Moist Sand	Grab	260		screen	

ANALYTICAL REPORT

Prepared for:

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

Project: Rice

PO#:

Order#: G0204763

Report Date: 10/15/2002

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#: G0204763
Project:
Project Name: Rice
Location: I-27

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>
0204763-01	5 pt. Bottom Comp. @ 15'	SOIL	10/10/02 14:00	10/14/02 8:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 4.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0204763-02	4 pt. Wall Comp. @ 15'	SOIL	10/10/02 14:00	10/14/02 8:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 4.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204763
Project:
Project Name: Rice
Location: I-27

Lab ID: 0204763-01
Sample ID: 5 pt. Bottom Comp. @ 15'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		10/14/02	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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	83%	70	130
1-Chlorooctadecane	81%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0003427-02		10/14/02 13:29	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	81%	80	120
Bromofluorobenzene	98%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204763
Project:
Project Name: Rice
Location: I-27

Lab ID: 0204763-02
Sample ID: 4 pt. Wall Comp. @ 15'

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		10/14/02	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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	85%	70	130
1-Chlorooctadecane	89%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0003427-02		10/14/02 13:49	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	80%	80	120
Bromofluorobenzene	97%	80	120

Approval:

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.

Date

10-16-02

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204763
Project:
Project Name: Rice
Location: I-27

Lab ID: 0204763-01
Sample ID: 5 pt. Bottom Comp. @ 15'

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	1520	mg/kg	1	20	9253	10/14/02	SB

Lab ID: 0204763-02
Sample ID: 4 pt. Wall Comp. @ 15'

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	2500	mg/kg	1	20	9253	10/14/02	SB

Approval:

Raland K Tuttle 10-16-02

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#: G0204763

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003429-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0204763-02	0	952	801	84.1%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0204763-02	0	952	811	85.2%	1.2%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003429-05		1000	830	83.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204763

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003427-02			<0.025		
Ethylbenzene-mg/kg		0003427-02			<0.025		
Toluene-mg/kg		0003427-02			<0.025		
p/m-Xylene-mg/kg		0003427-02			<0.025		
o-Xylene-mg/kg		0003427-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204763-02	0	0.1	0.100	100.0%	
Ethylbenzene-mg/kg		0204763-02	0	0.1	0.106	106.0%	
Toluene-mg/kg		0204763-02	0	0.1	0.104	104.0%	
p/m-Xylene-mg/kg		0204763-02	0	0.2	0.221	110.5%	
o-Xylene-mg/kg		0204763-02	0	0.1	0.106	106.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204763-02	0	0.1	0.094	94.0%	6.2%
Ethylbenzene-mg/kg		0204763-02	0	0.1	0.101	101.0%	4.8%
Toluene-mg/kg		0204763-02	0	0.1	0.100	100.0%	3.9%
p/m-Xylene-mg/kg		0204763-02	0	0.2	0.212	106.0%	4.2%
o-Xylene-mg/kg		0204763-02	0	0.1	0.101	101.0%	4.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003427-05		0.1	0.093	93.0%	
Ethylbenzene-mg/kg		0003427-05		0.1	0.099	99.0%	
Toluene-mg/kg		0003427-05		0.1	0.099	99.0%	
p/m-Xylene-mg/kg		0003427-05		0.2	0.208	104.0%	
o-Xylene-mg/kg		0003427-05		0.1	0.100	100.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204763

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003438-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204763-01	1520	1000	2520	100.0%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204763-01	1520	1000	2540	102.0%	0.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003438-04		5000	4960	99.2%	

ANALYTICAL REPORT

Prepared for:

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

Project: Rice

PO#:

Order#: G0204777

Report Date: 10/18/2002

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#: G0204777
Project:
Project Name: Rice
Location: I-27

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>Date / Time</u>	<u>Container</u>	<u>Preservative</u>
			<u>Collected</u>	<u>Received</u>		
0204777-01	5 pt. Bottom Comp. @ 11'	SOIL	10/14/02 11:00	10/15/02 17:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 12 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0204777-02	4 pt. Wall Comp. @ 10'	SOIL	10/14/02 11:00	10/15/02 17:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 12 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0204777-03	8 pt. Comp. Rem. Pile	SOIL	10/14/02 11:00	10/15/02 17:00	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 12 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204777
Project:
Project Name: Rice
Location: I-27

Lab ID: 0204777-01
Sample ID: 5 pt. Bottom Comp. @ 11'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		10/16/02	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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	81%	70	130
1-Chlorooctadecane	69%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0003446-02		10/16/02 15:26	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	86%	80	120
Bromofluorobenzene	94%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204777
Project:
Project Name: Rice
Location: I-27

Lab ID: 0204777-02
Sample ID: 4 pt. Wall Comp. @ 10'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		10/16/02	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

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	81%	70	130
1-Chlorooctadecane	71%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0003446-02		10/16/02 15:47	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	88%	80	120
Bromofluorobenzene	96%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204777
Project:
Project Name: Rice
Location: I-27

Lab ID: 0204777-03
Sample ID: 8 pt. Comp. Rem. Pile

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		10/16/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	22.9	10.0
TOTAL, C6-C35	22.9	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	79%	70	130
1-Chlorooctadecane	72%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0003446-02		10/16/02 16:08	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	91%	80	120
Bromofluorobenzene	101%	80	120

Approval:

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.

Date

Raland K. Tuttle 10-21-02

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0204777
Project:
Project Name: Rice
Location: I-27

Lab ID: 0204777-01
Sample ID: 5 pt. Bottom Comp. @ 11'

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	213	mg/kg	1	20	9253	10/18/02	SB

Lab ID: 0204777-02
Sample ID: 4 pt. Wall Comp. @ 10'

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	425	mg/kg	1	20	9253	10/18/02	SB

Lab ID: 0204777-03
Sample ID: 8 pt. Comp. Rem. Pile

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	417	mg/kg	1	20	9253	10/18/02	SB

Approval:

Roland K. Tuttle 10-21-02

Roland 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#: G0204777

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003464-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0204777-01	0	952	868	91.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0204777-01	0	952	861	90.4%	0.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0003464-05		1000	905	90.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204777

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003446-02			<0.025		
Ethylbenzene-mg/kg		0003446-02			<0.025		
Toluene-mg/kg		0003446-02			<0.025		
p/m-Xylene-mg/kg		0003446-02			<0.025		
o-Xylene-mg/kg		0003446-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204765-01	0	0.1	0.085	85.%	
Ethylbenzene-mg/kg		0204765-01	0	0.1	0.088	88.%	
Toluene-mg/kg		0204765-01	0	0.1	0.090	90.%	
p/m-Xylene-mg/kg		0204765-01	0	0.2	0.185	92.5%	
o-Xylene-mg/kg		0204765-01	0	0.1	0.088	88.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0204765-01	0	0.1	0.093	93.%	9.%
Ethylbenzene-mg/kg		0204765-01	0	0.1	0.098	98.%	10.8%
Toluene-mg/kg		0204765-01	0	0.1	0.098	98.%	8.5%
p/m-Xylene-mg/kg		0204765-01	0	0.2	0.204	102.%	9.8%
o-Xylene-mg/kg		0204765-01	0	0.1	0.098	98.%	10.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0003446-05		0.1	0.094	94.%	
Ethylbenzene-mg/kg		0003446-05		0.1	0.096	96.%	
Toluene-mg/kg		0003446-05		0.1	0.098	98.%	
p/m-Xylene-mg/kg		0003446-05		0.2	0.200	100.%	
o-Xylene-mg/kg		0003446-05		0.1	0.095	95.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204777

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003482-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204777-01	213	1000	1200	98.7%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0204777-01	213	1000	1220	100.7%	1.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0003482-04		5000	4960	99.2%	

12600 West I-20 East
Odessa, Texas 79763

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Car Anderson

Project Name:

Rice

Company Name

25

Project #:

Company Address:

I-27

City/State/Zip:

PO#:

Telephone No:

Fax No:

Sampler Signature:

[illegible]