

1R - 427 - 70

REPORTS

DATE:

5-17-2002

1R0427-70

FINAL REPORT

BOX LOCATION

TITLE Project Leader - Environmental

ANALYTICAL REPORT

Prepared for:

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Project: Rice Operating J-2
Order#: G0203121
Report Date: 04/26/2002

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#: G0203121
Project:
Project Name: Rice Operating
Location: EME J-2

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.

<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>
0203121-01	4 pt. Comp. Wall@4'	SOIL	4/18/02 11:15	4/19/02 8:00	4 oz Glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 17C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0203121-02	5 pt Comp. Bottom @5'	SOIL	4/18/02 11:30	4/19/02 8:00	4 oz Glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 17C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0203121
Project:
Project Name: Rice Operating
Location: EME J-2

Lab ID: 0203121-01
Sample ID: 4 pt. Comp. Wall@4'

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>		
		4/21/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
DRO, >C12-C35	<10.0	10.0
GRO, C6-C12	<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>		
0001382-02		4/23/02 16:22	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0203121-02
Sample ID: 5 pt Comp. Bottom @5'

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>		
		4/21/02	1	1	CK	8015M

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

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

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0203121
Project:
Project Name: Rice Operating
Location: EME J-2

Lab ID: 0203121-02
Sample ID: 5 pt Comp. Bottom @5'

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0001382-02		4/23/02 16:44	1	25	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Approval:

Raland 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.

4-27-02

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0203121
Project:
Project Name: Rice Operating
Location: EME J-2

Lab ID: 0203121-01
Sample ID: 4 pt. Comp. Wall@4'

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	598	mg/kg	1	10.0	9253	4/26/02	SB

Lab ID: 0203121-02
Sample ID: 5 pt Comp. Bottom @5'

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	421	mg/kg	1	10.0	9253	4/26/02	SB

Approval:

Raland K. Tuttle 4-27-02
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.

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203121

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001354-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203121-02	0	952	743	78.8%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0203121-02	0	952	724	76.1%	2.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001354-05		1000	829	82.9%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203121

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	SOIL						
Benzene-μg/kg		0001382-02			<25.0		
Ethylbenzene-μg/kg		0001382-02			<25.0		
Toluene-μg/kg		0001382-02			<25.0		
p/m-Xylene-μg/kg		0001382-02			<25.0		
o-Xylene-μg/kg		0001382-02			<25.0		
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	SOIL						
Benzene-μg/kg		0203120-01	0	100	102	102.0%	
Ethylbenzene-μg/kg		0203120-01	0	100	104	104.0%	
Toluene-μg/kg		0203120-01	0	100	104	104.0%	
p/m-Xylene-μg/kg		0203120-01	0	200	214	107.0%	
o-Xylene-μg/kg		0203120-01	0	100	104	104.0%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	SOIL						
Benzene-μg/kg		0203120-01	102	100	105	105.0%	2.9%
Ethylbenzene-μg/kg		0203120-01	104	100	108	108.0%	3.8%
Toluene-μg/kg		0203120-01	104	100	106	106.0%	1.9%
p/m-Xylene-μg/kg		0203120-01	214	200	221	110.0%	3.2%
o-Xylene-μg/kg		0203120-01	104	100	107	107.0%	2.8%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
	SOIL						
Benzene-μg/kg		0001382-05		100	99.2	99.2%	
Ethylbenzene-μg/kg		0001382-05		100	106	106.0%	
Toluene-μg/kg		0001382-05		100	114	114.0%	
p/m-Xylene-μg/kg		0001382-05		200	213	106.5%	
o-Xylene-μg/kg		0001382-05		100	107	107.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0203121

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001412-01			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203120-01	691	500	1200	101.8%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0203120-01	691	500	1190	99.8%	0.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0001412-04		5000	5050	101.1%	

EME J-2 Junction Box Upgrade



Old Junction Box



NORM Removal



New Plumbing

EME J-2 Junction Box Upgrade



Remediation



New Box Construction



Completed Junction Box