

1R - 426-35

REPORTS

DATE:

10/30/2002

1R-426-35

DISCLOSURE REPORT

**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

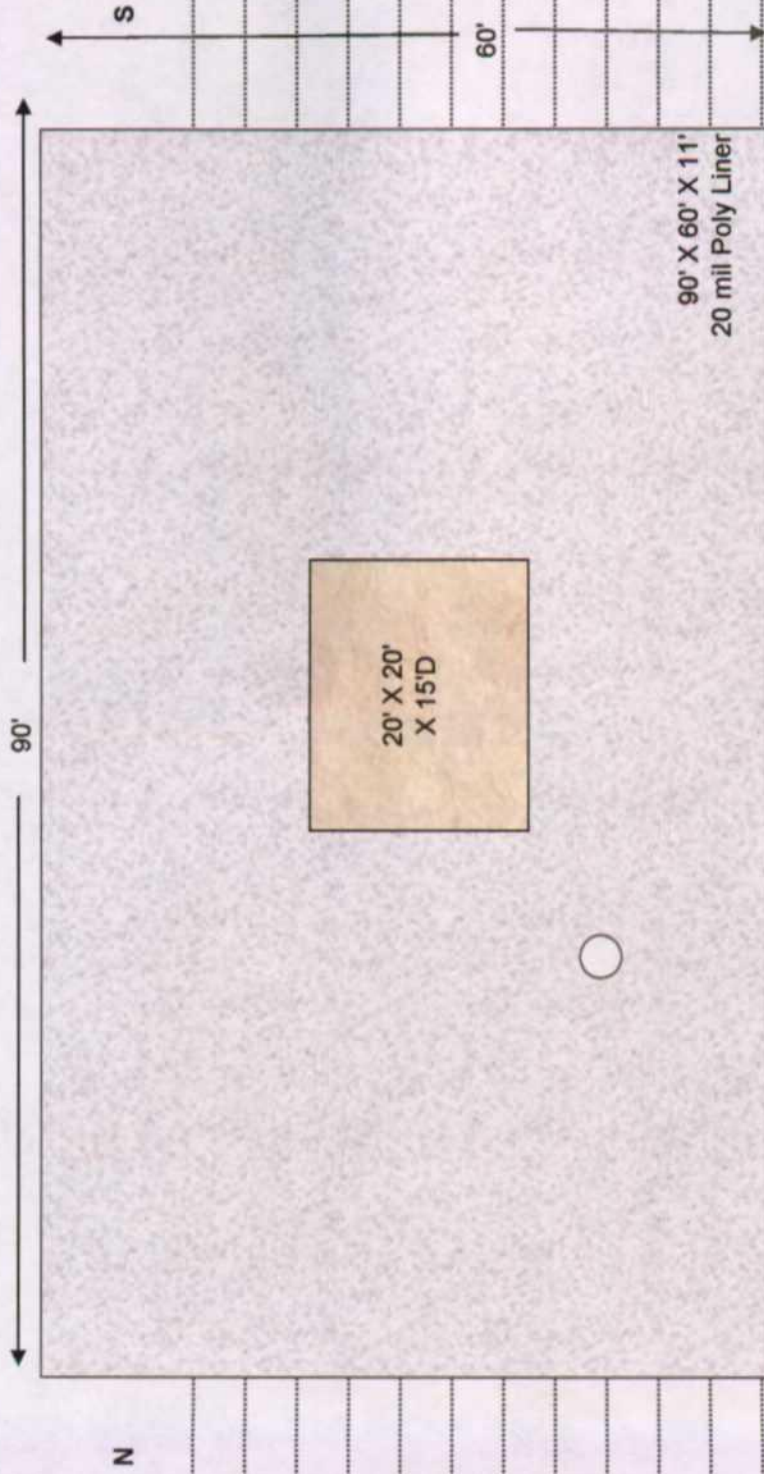
LOCATION	Depth	TPH	mg/kg
SIDEWALLS	15'	22	2350
BOTTOM	15'	91	1470
Remediated Soil	comp	82	400
Vertical Trench	3'	5920	N/A
	11'	22,480	N/A
	15'	904	N/A
	17'	68	2270
	23'	N/A	2670
	27'	N/A	3100
	30	N/A	5950

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

AERIAL VIEW OF IMPACT AREA

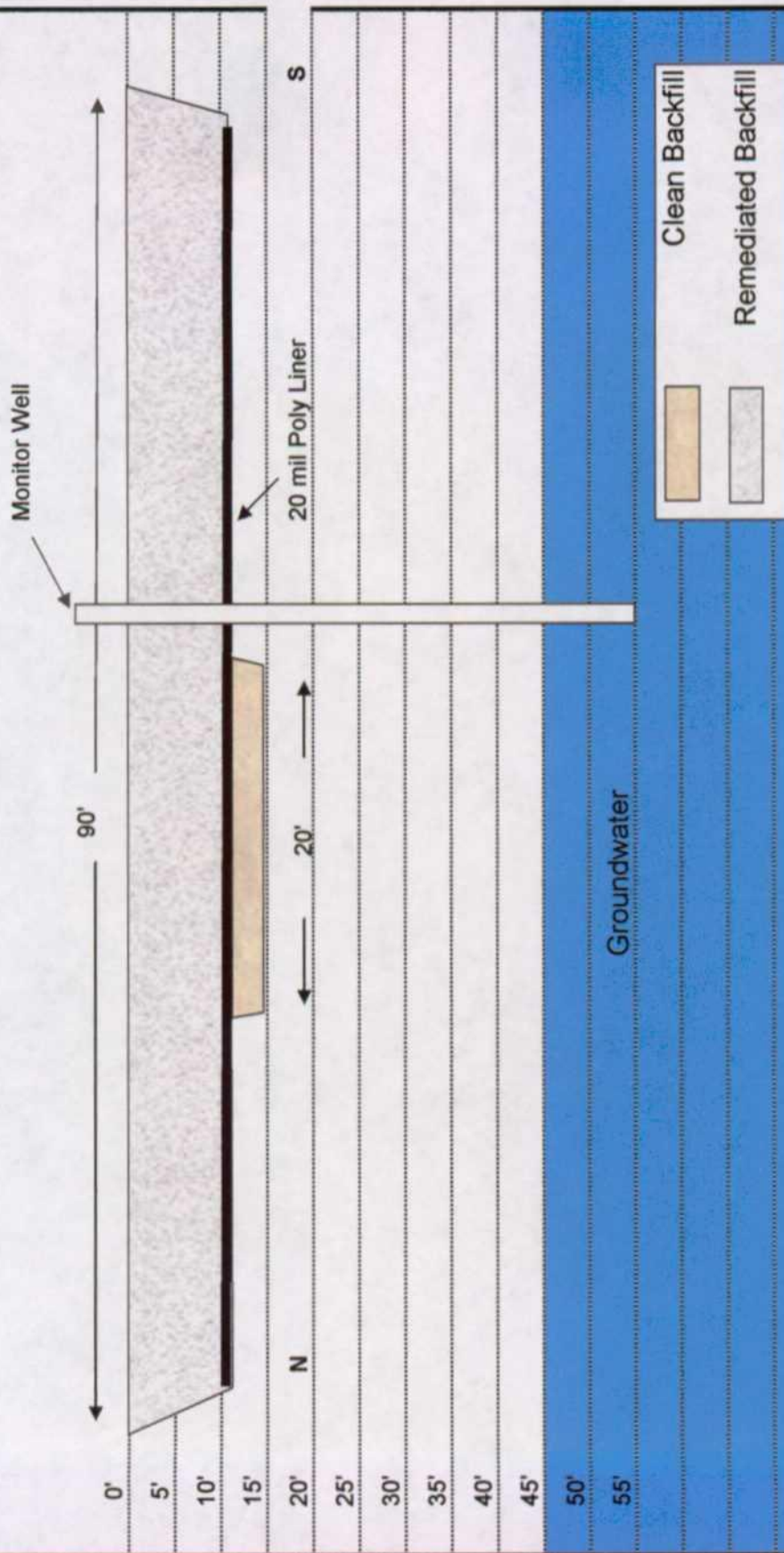
N →



○ Monitor Well

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
---	--	---

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
---	--	---





DEPTH	SUBSURFACE LITHOLOGY	SAMPLE TYPE	Test Results (ppm)		REMARKS	Boring
			Cl ⁻	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			
20	Sandy Clay Pink Clay	Grab	651			
22	Caliche with Clay Stringers					
25	Pink Sandy Loam	Grab	2,340			
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	

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>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0205153-01	MW 1	WATER	12/2/02 12:10	12/2/02 20:40	See COC	See COC
	<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 12:10	12/2/02 20:40	See COC	See COC
	<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		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
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, 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 12-11-02

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

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

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>
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

Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

Date

12-11-02

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 Factor</u>	<u>RL</u>	<u>Method</u>	<u>Date Prepared</u>	<u>Date 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.

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0205153

BLANK							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
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							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
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							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
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							
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
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	111.1%	
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
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
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
Chloride-mg/L		0205115-01	461	500	948	97.4%
MSD						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
Chloride-mg/L		0205115-01	461	500	957	99.2%
SRM						
	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery
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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: I-27 jct.

Project #:

Project Loc: BD

PO #: 505

Fax No: (505) 397-1471

[illegible]

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> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 4.0 C		
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> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 4.0 C		

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 Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	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

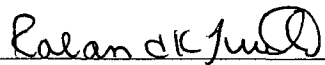
Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	85%	70	130
1-Chlorooctadecane	89%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	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:  10-16-02
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.

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

Page 2 of 2

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>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</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> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 12 C		
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> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 12 C		
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> 8015M 8021B/5030 BTEX Chloride	Rejected: No		Temp: 12 C		

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

<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>		
		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

<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>		
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

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

Page 2 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: 0204777-03
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

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

Page 3 of 3

ENVIRONMENTAL LAB OF TEXAS I, LTD.

12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

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:

Raland K. Tuttle 10-21-02
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#: 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:

100-310-000-11110
Loy Anderson
26

Project Name:

Rice

Company Name

Project #:

Company Address:

Project Loc:

City/State/Zip:

PO #:**Telephone No:**

Fax No:

Sampler Signature:[illegible]