

1R - 426-21

REPORTS

DATE:

7/30/2003

IR-426-21

FINAL REPORT

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
BD	K-27 South	K	27	21 S	37 E	Lea	Length	Width	Depth
							9	6	7.5

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER James Gardner OTHER _____

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

Date Started 5/19/2003 Date Completed 5/19/2003 OCD Witness No

Soil Excavated 40 cubic yards Excavation Length 10 Width 15 Depth 8 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 5/19/2003 Sample Depth 8' 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	<20
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<20
REMEDIATED	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	213

General Description of Remedial Action: Upon arrival, this site had healthy

vegetation at the surface. Samples were taken with a backhoe and care was taken as to not

disturb the established vegetation. Testing of the samples indicated that TPH and chloride concentrations were minimal and no further excavation was necessary. A water-tight

junction box was installed at the site. The surrounding surface has been re-seeded with native vegetation and is expected to fully return to productive capacity at a normal rate.

cc: lab results, photo, diagram

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	6	250
	8	100
Wall Comp.	n/a	200
Bottom Comp.	8	75

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

DATE 7/30/2003

PRINTED NAME Kristin Farris

SIGNATURE *Kristin Farris*

TITLE Project Scientist

BD jct. K-27 North
BD jct. K-27 South



24" dead gas line

PRODUCTION

BATTERY

2" poly ROC line

drip pot

jct. K-27 North

30'

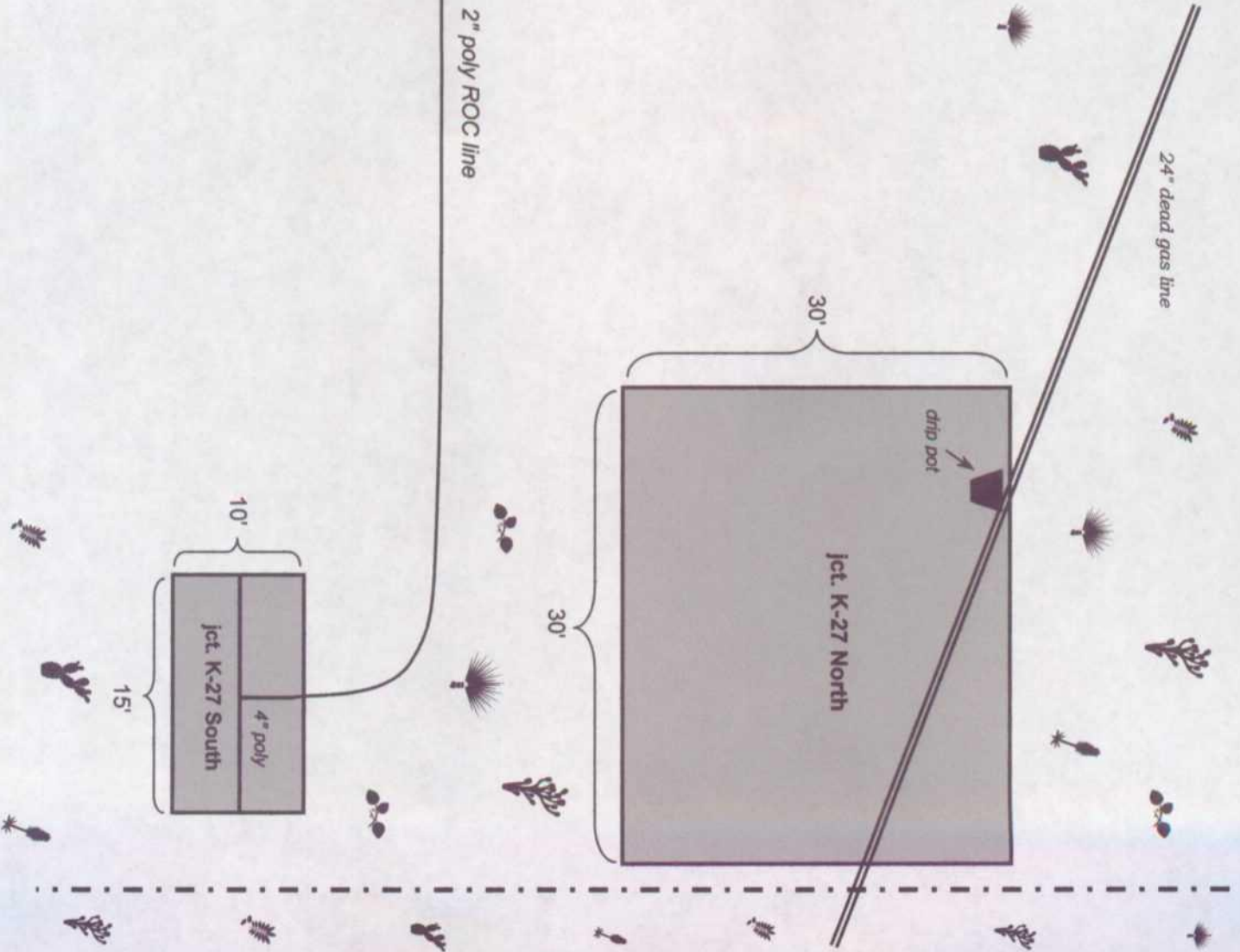
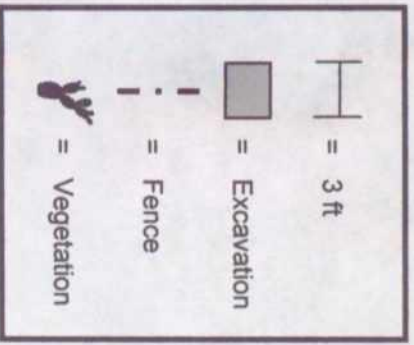
30'

10'

jct. K-27 South

4" poly

15'



BD jct. K-27 South



After NORM Decontamination & New Plumbing



Construction of Box Floor With Poly Liner



New Box Construction

ANALYTICAL REPORT

Prepared for:

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

Project: K-27 South

PO#:

Order#: G0306661

Report Date: 06/09/2003

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#: G0306661
Project:
Project Name: K-27 South
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>
0306661-01	Backfill Comp	SOIL	6/5/03 16:00	6/6/03 8:00	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp:	0.5 C		
8015M						
8021B/5030 BTEX						
Chloride						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306661
Project:
Project Name: K-27 South
Location: BD

Lab ID: 0306661-01
Sample ID: Backfill Comp

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	6/6/03	SB

Approval:

Cele D. Keene
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.

06/10/03
Date

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306661

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005771-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306661-01	0	952	1237	129.9%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306661-01	1	952	1226	128.7%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005771-05		952	1039	109.1%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306661

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005773-02			< 0.025		
Toluene-mg/kg		0005773-02			< 0.025		
Ethylbenzene-mg/kg		0005773-02			< 0.025		
p/m-Xylene-mg/kg		0005773-02			< 0.025		
o-Xylene-mg/kg		0005773-02			< 0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306681-02	0	2.5	2.26	90.4%	
Toluene-mg/kg		0306681-02	0	2.5	2.23	89.2%	
Ethylbenzene-mg/kg		0306681-02	0	2.5	2.27	90.8%	
p/m-Xylene-mg/kg		0306681-02	0	5	4.72	94.4%	
o-Xylene-mg/kg		0306681-02	0	2.5	2.24	89.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306681-02	0	2.5	2.34	93.6%	3.5%
Toluene-mg/kg		0306681-02	0	2.5	2.28	91.2%	2.2%
Ethylbenzene-mg/kg		0306681-02	0	2.5	2.36	94.4%	3.9%
p/m-Xylene-mg/kg		0306681-02	0	5	5.08	101.6%	7.3%
o-Xylene-mg/kg		0306681-02	0	2.5	2.37	94.8%	5.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005773-05		0.1	.098	98.%	
Toluene-mg/kg		0005773-05		0.1	0.094	94.%	
Ethylbenzene-mg/kg		0005773-05		0.1	0.091	91.%	
p/m-Xylene-mg/kg		0005773-05		0.2	0.188	94.%	
o-Xylene-mg/kg		0005773-05		0.1	0.089	89.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306661

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005764-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306647-01	2300	500	2820	104.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306647-01	2300	500	2840	108.%	0.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005764-04		5000	4960	99.2%	

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306661
Project:
Project Name: K-27 South
Location: BD

Lab ID: 0306661-01
Sample ID: Backfill Comp

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/6/03	1	1	WL	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	113%	70	130
1-Chlorooctadecane	85%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005773-02		6/9/03 2:57	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	< 0.0250	0.0250
Toluene	< 0.0250	0.0250
Ethylbenzene	< 0.0250	0.0250
p/m-Xylene	< 0.0250	0.0250
o-Xylene	< 0.0250	0.0250

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	104%	80	120

Approval:

Cele D. Keene 06/10/03
Raland K. Tuttle, Lab Director, QA Officer
Cele D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

ANALYTICAL REPORT

Prepared for:

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

Project: K-27 South

PO#:

Order#: G0306546

Report Date: 05/23/2003

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#: G0306546
Project:
Project Name: K-27 South
Location: BD

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<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>
0306546-01	5 pt Bottom Comp. @ 8'	SOIL	5/19/03	5/21/03	4 oz glass	Ice
			14:00	12:00		
			Temp: 4 C			
			Rejected: No			
			<u>Lab Testing:</u>			
	8015M					
	8021B/5030 BTEX					
	Chloride					
0306546-02	Wall Comp.	SOIL	5/19/03	5/21/03	4 oz glass	Ice
			14:00	12:00		
			Temp: 4 C			
			Rejected: No			
			<u>Lab Testing:</u>			
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306546
Project:
Project Name: K-27 South
Location: BD

Lab ID: 0306546-01
Sample ID: 5 pt Bottom Comp. @ 8'

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		5/21/03	1	1	WL	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	118%	70	130
1-Chlorooctadecane	75%	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
0005613-02		5/22/03 12:06	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	116%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306546
Project:
Project Name: K-27 South
Location: BD

Lab ID: 0306546-02
Sample ID: Wall Comp.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/21/03	1	1	WL	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	124%	70	130
1-Chlorooctadecane	77%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005613-02		5/22/03 13:13	1	25	CK	8021B

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

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	113%	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

5-27-03

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306546
Project:
Project Name: K-27 South
Location: BD

Lab ID: 0306546-01
Sample ID: 5 pt Bottom Comp. @ 8'

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	<20	mg/kg	1	20	9253	5/22/03	SB

Lab ID: 0306546-02
Sample ID: Wall Comp.

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	<20	mg/kg	1	20	9253	5/22/03	SB

Approval: Raland K. Tuttle 5-27-03
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306546

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005604-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306546-01	0	1005.312	800	79.6%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306546-01	800	1005.312	800	79.6%	0.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005604-05		1000	821	82.1%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306546

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005613-02			<0.025		
Toluene-mg/kg		0005613-02			<0.025		
Ethylbenzene-mg/kg		0005613-02			<0.025		
p/m-Xylene-mg/kg		0005613-02			<0.025		
o-Xylene-mg/kg		0005613-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306546-01	0	0.1	0.103	103.%	
Toluene-mg/kg		0306546-01	0	0.1	0.101	101.%	
Ethylbenzene-mg/kg		0306546-01	0	0.1	0.096	96.%	
p/m-Xylene-mg/kg		0306546-01	0	0.2	0.198	99.%	
o-Xylene-mg/kg		0306546-01	0	0.1	0.091	91.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306546-01	0	0.1	0.110	110.%	6.6%
Toluene-mg/kg		0306546-01	0	0.1	0.110	110.%	8.5%
Ethylbenzene-mg/kg		0306546-01	0	0.1	0.102	102.%	6.1%
p/m-Xylene-mg/kg		0306546-01	0	0.2	0.211	105.5%	6.4%
o-Xylene-mg/kg		0306546-01	0	0.1	0.098	98.%	7.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005613-05		0.1	0.109	109.%	
Toluene-mg/kg		0005613-05		0.1	0.106	106.%	
Ethylbenzene-mg/kg		0005613-05		0.1	0.098	98.%	
p/m-Xylene-mg/kg		0005613-05		0.2	0.203	101.5%	
o-Xylene-mg/kg		0005613-05		0.1	0.094	94.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306546

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005622-01			<20		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306546-01	0	500	496	99.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306546-01	0	500	514	102.8%	3.6%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005622-04		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

Kristin Farris

K-27 South

Rice Operating

Project #:

122 W Taylor

Project Loc:

42

Hobbs, NM 88240

註

Fax No:

[illegible]