

1R - 427-05

REPORTS

DATE:

3-12-2003

1R0427-5

DISCLOSURE REPORT

**RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	J-10	J	10	20S	36E	Lea	Length	Width	Depth
							7	5	6

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER George & Harry Klein OTHER _____

Depth to Groundwater 31 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 1/30/2003 Date Completed 2/18/2003 OCD Witness No

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 2/17/2003 Sample Depth 12'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	1060
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	815
BACKFILL	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	<20

General Description of Remedial Action: Vertical delineation showed that chloride impact did not substantially decrease down to 17' bgs. TPH impact was minimal at the location.

15' was excavated in all directions to 12' bgs without a lateral decline in chlorides. A 20 mil poly liner was installed at the bottom of the excavation and extended up the walls. The liner was backfilled with the blended excavated soil. A water-tight junction box has been built over the location. The excavation area will be re-seeded with native vegetation and monitored for growth.

cc: photos, lab results, diagrams

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	3	4640
	7	920
	11	993
	13	747
	17	936
15' E	12	953
15' S	12	1043
15' N	12	621
15' W	12	1002
bottom comp.	12'	779

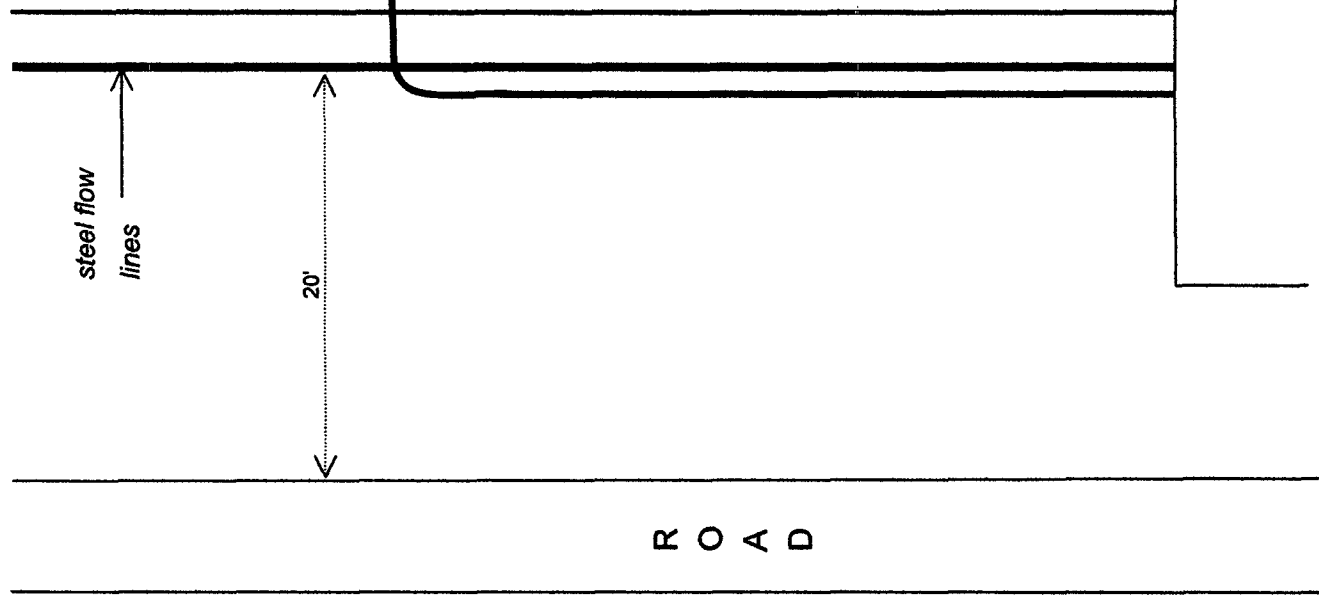
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE 3/12/2003 PRINTED NAME Kristin Farris

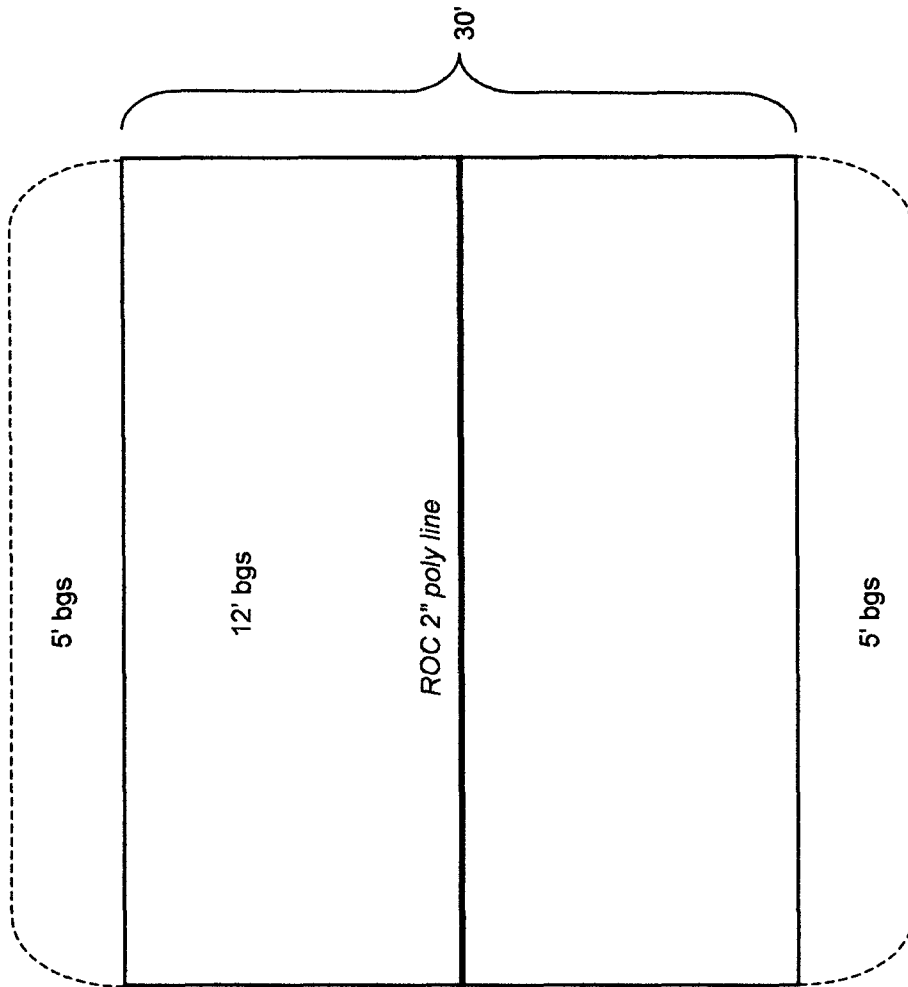
SIGNATURE Kristin Farris TITLE Projects Scientist

EME jct. J-10

30' x 30' x 12' Impact Excavation



VEGETATION

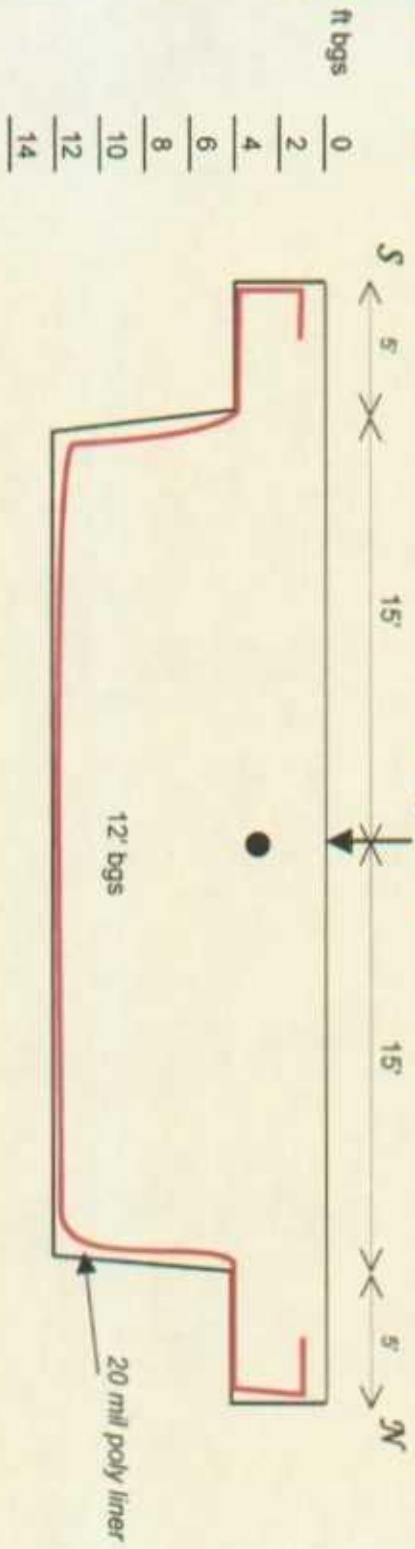


| = 2 FT

EME Jet. J-10

30' x 30' x 12' Excavation

Cross-Section



EME jct. J-10



↓ Excavation ↑



EME jct. J-10



Installation of 20 mil Poly Liner



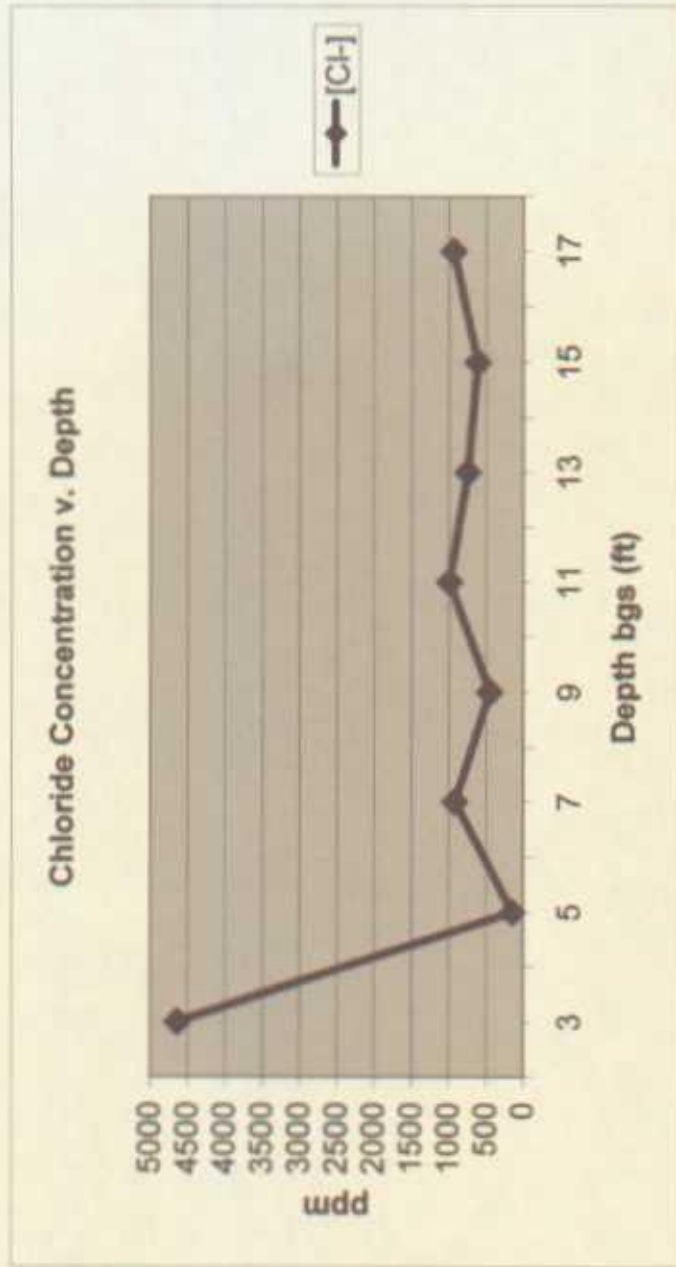
New Junction Box

EME jet, J-10

T20S, R36E

Depth bgs (ft)	[Cl ⁻] ppm
3	4640
5	145
7	920
9	450
11	993
13	747
15	614
17	936

Groundwater = 31 ft



ANALYTICAL REPORT

Prepared for:

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

Btm. + Wall
Comp.

Project: Jct. J-10
PO#: 749
Order#: G0305738
Report Date: 02/27/2003

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#: G0305738
Project:
Project Name: Jct. J-10
Location: EME

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>
0305738-01	Bottom Comp. @ 12'	SOIL	2/17/03	2/17/03 19:33	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No	Temp:	4.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0305738-02	Wall Comp.	SOIL	2/17/03	2/17/03 19:33	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

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

Order#: G0305738
Project:
Project Name: Jct. J-10
Location: EME

Lab ID: 0305738-01
Sample ID: Bottom Comp. @ 12'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		2/18/03	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	99%	70	130
1-Chlorooctadecane	94%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0004771-02		2/22/03 14:36	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	83%	80	120
Bromofluorobenzene	97%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305738
Project:
Project Name: Jct. J-10
Location: EME

Lab ID: 0305738-02
Sample ID: Wall Comp.

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		2/18/03	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	94%	70	130
1-Chlorooctadecane	86%	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>		
0004771-02		2/22/03 14:56	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	97%	80	120
Bromofluorobenzene	103%	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 2-28-03

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305738
Project:
Project Name: Jct. J-10
Location: EME

Lab ID: 0305738-01
Sample ID: Bottom Comp. @ 12'

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	815	mg/kg	1	20	9253	2/18/03	SB

Lab ID: 0305738-02
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	1060	mg/kg	1	20	9253	2/18/03	SB

Approval: Raland K. Tuttle 2-28-03
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#: G0305738

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004680-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305738-01	0	952	840	88.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305738-01	0	952	832	87.4%	1.0%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004680-05		1000	901	90.1%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305738

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004771-02			<0.025		
Toluene-mg/kg		0004771-02			<0.025		
Ethylbenzene-mg/kg		0004771-02			<0.025		
p/m-Xylene-mg/kg		0004771-02			<0.025		
o-Xylene-mg/kg		0004771-02			<0.025		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004771-03		0.1	0.097	97.%	
Toluene-mg/kg		0004771-03		0.1	0.099	99.%	
Ethylbenzene-mg/kg		0004771-03		0.1	0.095	95.%	
p/m-Xylene-mg/kg		0004771-03		0.2	0.204	102.%	
o-Xylene-mg/kg		0004771-03		0.1	0.096	96.%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004771-04		0.1	0.095	95.%	2.1%
Toluene-mg/kg		0004771-04		0.1	0.097	97.%	2.%
Ethylbenzene-mg/kg		0004771-04		0.1	0.096	96.%	1.%
p/m-Xylene-mg/kg		0004771-04		0.2	0.205	102.5%	0.5%
o-Xylene-mg/kg		0004771-04		0.1	0.100	100.%	4.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004771-05		0.1	0.098	98.%	
Toluene-mg/kg		0004771-05		0.1	0.102	102.%	
Ethylbenzene-mg/kg		0004771-05		0.1	0.099	99.%	
p/m-Xylene-mg/kg		0004771-05		0.2	0.212	106.%	
o-Xylene-mg/kg		0004771-05		0.1	0.100	100.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0305738

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004683-01			<20		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305725-18	2690	2000	4720	101.5%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305725-18	2690	2000	4680	99.5%	0.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004683-04		5000	4960	99.2%	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Project #:

Project Loc:

PO#:

P. 2

ANALYTICAL REPORT

Prepared for:

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

Backfill

Project: Jct. J-10
PO#: 749
Order#: G0305811
Report Date: 03/03/2003

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#: G0305811
Project:
Project Name: Jct. J-10
Location: EME

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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>
0305811-01	Backfill	SOIL	2/24/03	2/26/03 7:10	4 oz glass	Ice
<u>Lab Testing:</u>		Rejected: No	Temp: 3.0 C			
8015M						
8021B/5030 BTEX						
Chloride						

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305811
Project:
Project Name: Jct. J-10
Location: EME

Lab ID: 0305811-01
Sample ID: Backfill

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		2/26/03	1	1	RKT	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	99%	70	130
1-Chlorooctadecane	89%	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>		
0004811-02		2/27/03 0:12	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	111%	80	120
Bromofluorobenzene	110%	80	120

Approval: Raland K. Tuttle 3-04-03
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#: G0305811
Project:
Project Name: Jct. J-10
Location: EME

Lab ID: 0305811-01
Sample ID: Backfill

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	<20.0	mg/kg	1	20	9253	2/27/03	SB

Approval: Raland K. Tuttle 3-04-03
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#: G0305811

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004759-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305810-02	0	952	906	95.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305810-02	0	952	747	78.5%	19.2%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004759-05		1000	759	75.9%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305811

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004811-02			<0.025		
Toluene-mg/kg		0004811-02			<0.025		
Ethylbenzene-mg/kg		0004811-02			<0.025		
p/m-Xylene-mg/kg		0004811-02			<0.025		
o-Xylene-mg/kg		0004811-02			<0.025		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004811-03		0.1	0.097	97.%	
Toluene-mg/kg		0004811-03		0.1	0.100	100.%	
Ethylbenzene-mg/kg		0004811-03		0.1	0.101	101.%	
p/m-Xylene-mg/kg		0004811-03		0.2	0.208	104.%	
o-Xylene-mg/kg		0004811-03		0.1	0.100	100.%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004811-04		0.1	0.097	97.%	0.%
Toluene-mg/kg		0004811-04		0.1	0.100	100.%	0.%
Ethylbenzene-mg/kg		0004811-04		0.1	0.101	101.%	0.%
p/m-Xylene-mg/kg		0004811-04		0.2	0.207	103.5%	0.5%
o-Xylene-mg/kg		0004811-04		0.1	0.100	100.%	0.%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004811-05		0.1	0.096	96.%	
Toluene-mg/kg		0004811-05		0.1	0.098	98.%	
Ethylbenzene-mg/kg		0004811-05		0.1	0.098	98.%	
p/m-Xylene-mg/kg		0004811-05		0.2	0.200	100.%	
o-Xylene-mg/kg		0004811-05		0.1	0.098	98.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0305811

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004774-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305808-01	1700	1000	2690	99.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305808-01	1700	1000	2680	98.2%	0.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004774-04		5000	4960	99.2%	

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Project #:

Project Loc:

PO#:

μ. 2