

1R - 427-19

APPROVALS

YEAR(S):

2013

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Thursday, January 17, 2013 4:17 PM
To: Hack Conder (hconder@riceswd.com)
Cc: Leking, Geoffrey R, EMNRD; Laura Pena (lpena@riceswd.com); Katie Jones <kjones@riceswd.com> (kjones@riceswd.com); Scott Curtis (scurtis@riceswd.com)
Subject: Remediation Plan (1R427-19) Termination - ROC EME Cooper Fed 'D' EOL Site

**RE: Termination Request
for the Rice Operating Company's
EME Cooper Fed 'D' EOL Site
Unit Letter E, Section 26, T20S, R36E, NMPM, Lea County, New Mexico
Remediation Plan (1R427-19) Termination**

Dear Mr. Conder:

The New Mexico Oil Conservation Division (OCD) has received Rice Operating Company's report and request to close the above-referenced site, dated January 11, 2013 (received January 15, 2013). The report is acceptable to the OCD.

The above-referenced report, submitted in accordance with 19.15.29 NMAC (Rule 29; formally, Rule 116), indicates that Rice Operating Company has met the requirements of 19.15.29 NMAC; therefore, the OCD approves the report and hereby notifies you that the remediation plan (1R427-19) is terminated in accordance with 19.15.29 NMAC.

Please be advised that OCD approval of this report does not relieve the owner/operator of responsibility should operations pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the owner/operator of responsibility for compliance with any OCD, federal, state, or local laws and/or regulations.

If you have any questions regarding this matter, please contact me at 505-476-3489.

Edward J. Hansen
Hydrologist
Environmental Bureau

RICE *Operating Company*

122 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL

RETURN RECEIPT NO. 7007 2560 0000 4569 8746

January 11, 2013

RECEIVED

JAN 15 2013

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

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: Termination Request
EME Cooper Fed 'D' EOL (1R427-19): UL/E Sec. 26, T20S, R36E
RICE Operating Company – Eunice Monument Eumont SWD System

Mr. Hansen:

Rice Operating Company (ROC) is the service provider (agent) for the EME Saltwater Disposal (SWD) System and has no ownership of any portion of the pipeline, well, or facility. The System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background

In 2003, ROC initiated work on the former Cooper Fed 'D' EOL junction box. The site is located in UL/E, Sec. 26, T20S, R36E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 106 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 20x10x12 ft deep excavation. Each sample was field titrated for chlorides resulting in low concentrations. The excavated soil was blended on site and representative composite samples of the excavation bottom, the excavation walls, and the remediated backfill were sent to a commercial laboratory for analysis of chloride and TPH, resulting in a sidewall chloride concentration of 478 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bottom composite resulted in chloride concentrations of 443 mg/kg, a GRO concentration below detectable limits, and a DRO concentration of 71.8 mg/kg. The remediated backfill resulted in a chloride concentration of 319 mg/kg, a GRO concentration below detectable limits, and a DRO concentration of 661 mg/kg. BTEX was also analyzed, resulting in concentrations below detectable limits in all samples. The remediated backfill was returned to the excavation to ground surface and contoured to the surrounding area.

The junction box site location map, final report, photodocumentation, laboratory analysis and current photodocumentation are attached.

Recommendations

Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 2003). As such, ROC request termination of the regulatory file, or similar closure status.

Please contact me at (575)393-9174 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,
RICE Operating Company

A handwritten signature in black ink, appearing to read 'H. Conder', with a long horizontal flourish extending to the right.

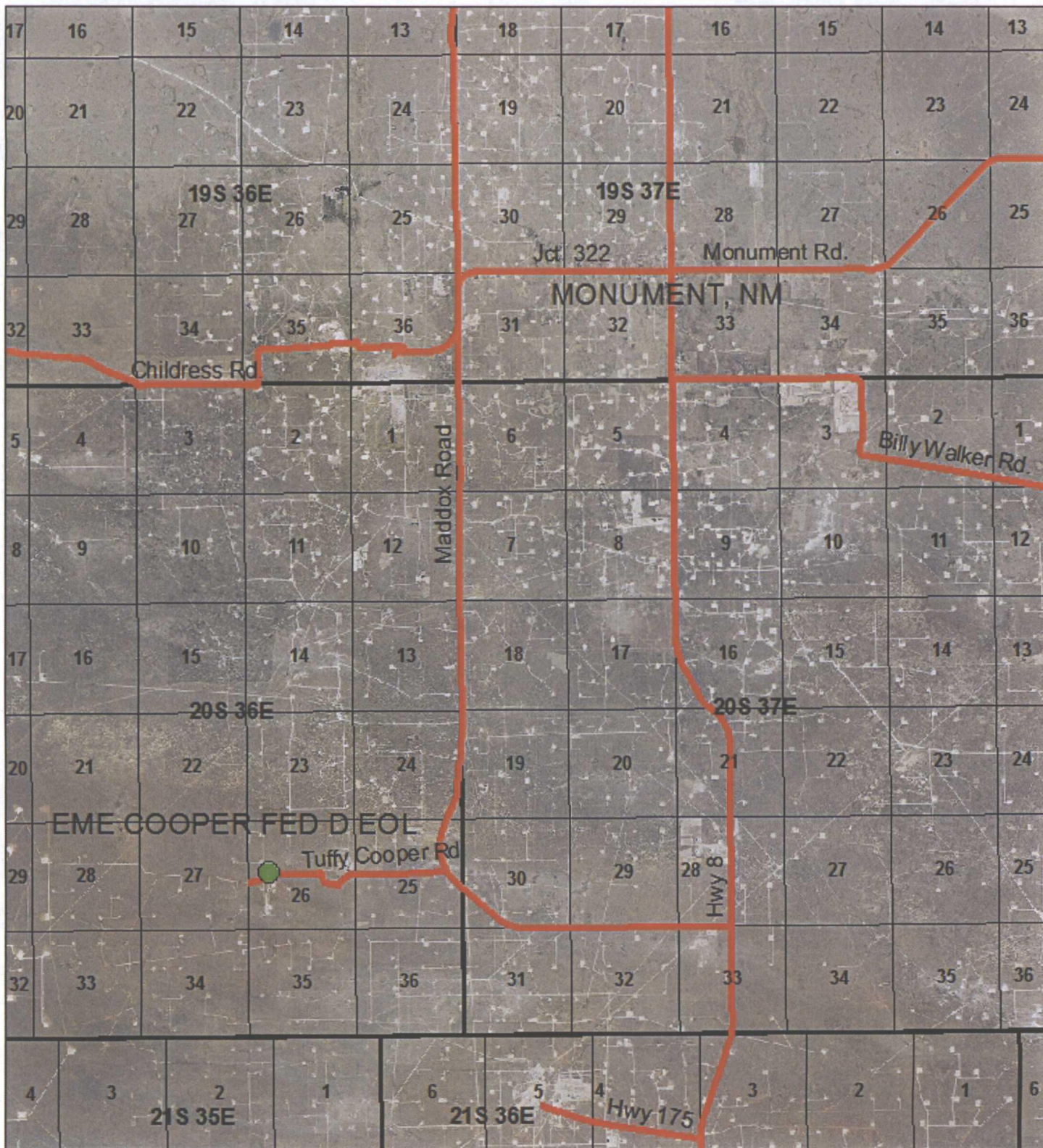
Hack Conder
Environmental Manager

enclosures

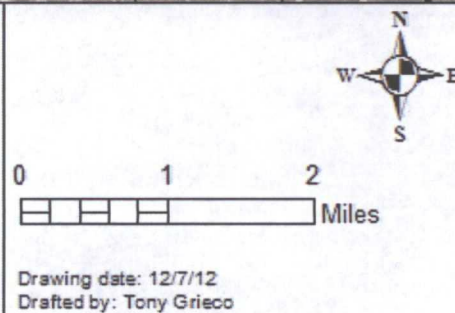


Site Location Map

RICE *Operating Company* (ROC)
112 West Taylor Hobbs, NM 88240
Phone: (575) 393-9174 Fax: (575) 397-1471



EME
COOPER FED 'D'
EOL
ULE SECTION 26
T-20-S R-36-E
LEA COUNTY, NM





Junction Box Report

RICE *Operating Company* (ROC)
112 West Taylor Hobbs, NM 88240
Phone: (575) 393-9174 Fax: (575) 397-1471

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
EME	Cooper Fed. 'D' EOL	E	26	20 S	36 E	Lea	Length	Width	Depth
							8	5	5.5

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Tuffy Cooper OTHER _____

Depth to Groundwater 106 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 3/12/2003 Date Completed 3/27/2003 OCD Witness No

Soil Excavated 88 cubic yards Excavation Length 20 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 3/14/2003 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	478
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	71.8	443
REMEDIATED	<0.025	<0.025	<0.025	<0.025	<10.0	661	319

General Description of Remedial Action: This junction is located near an active production facility. The site was delineated vertically and laterally producing a 20' x 10' x 12' bgs excavation. Groundwater is 106'. There were no signs of TPH impact and samples taken to a lab resulted in concentrations below NMOCD guidelines. ROC believes that chloride concentrations of this magnitude does not present a threat to groundwater that is 90+ feet below. The excavated soil was blended at the location and then backfilled into the hole. A water-tight junction box has been build over the site.

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	4	250
	6	350
	8	200
	10	400
	12	550
wall comp.	n/a	400
bottom comp.	12	580
remed. Comp.	n/a	319

cc: lab results, photos

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

DATE 4/11/2003 PRINTED NAME Kristin Farris

SIGNATURE *Kristin Farris* TITLE Projects Scientist

EME Cooper Fed. 'D'



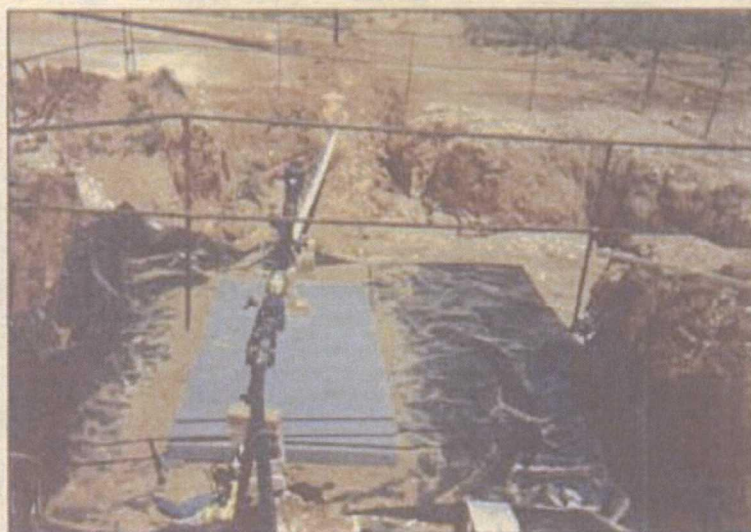
NORM Removal



Impact Excavation



Impact Excavation



Box Construction (with poly liner)



New Junction Box

ANALYTICAL REPORT

Prepared for:

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

Project: Cooper Fed 'D' EOL
PO#: 757
Order#: G0305982
Report Date: 03/20/2003

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#: G0305982
Project:
Project Name: Cooper Fed 'D' EOL
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>
0305982-01	Wall Comp.	SOIL	3/14/03	3/14/03 19:30	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					
0305982-02	Bottom Comp. @ 12'	SOIL	3/14/03	3/14/03 19:30	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.0 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305982
Project:
Project Name: Cooper Fed 'D' EOL
Location: EME

Lab ID: 0305982-01
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>		
		3/17/03	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>		
0004966-02		3/17/03 15:10	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	95%	80	120
Bromofluorobenzene	114%	80	120

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

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305982
Project:
Project Name: Cooper Fed 'D' EOL
Location: EME

Lab ID: 0305982-02
Sample ID: Bottom Comp. @ 12'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		3/17/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	71.8	10.0
TOTAL, C6-C35	71.8	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	97%	70	130
1-Chlorooctadecane	94%	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>		
0004966-02		3/17/03 15:30	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	88%	80	120
Bromofluorobenzene	111%	80	120

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.

Date

3-25-03

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

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0305982
Project:
Project Name: Cooper Fed 'D' EOL
Location: EME

Lab ID: 0305982-01
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	478	mg/kg	1	20	9253	3/20/03	SB

Lab ID: 0305982-02
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	443	mg/kg	1	20	9253	3/20/03	SB

Approval: Raland K. Tuttle 3-25-03
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#: G0305982

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004968-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305982-01	0	952	811	85.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0305982-01	0	952	895	94.4%	9.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0004968-05		1000	960	96.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305982

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004966-02			<0.025		
Toluene-mg/kg		0004966-02			<0.025		
Ethylbenzene-mg/kg		0004966-02			<0.025		
p/m-Xylene-mg/kg		0004966-02			<0.025		
o-Xylene-mg/kg		0004966-02			<0.025		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004966-03		0.1	0.099	99.0%	
Toluene-mg/kg		0004966-03		0.1	0.103	103.0%	
Ethylbenzene-mg/kg		0004966-03		0.1	0.106	106.0%	
p/m-Xylene-mg/kg		0004966-03		0.2	0.222	111.0%	
o-Xylene-mg/kg		0004966-03		0.1	0.113	113.0%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004966-04		0.1	0.094	94.0%	5.2%
Toluene-mg/kg		0004966-04		0.1	0.097	97.0%	6.0%
Ethylbenzene-mg/kg		0004966-04		0.1	0.099	99.0%	6.8%
p/m-Xylene-mg/kg		0004966-04		0.2	0.206	103.0%	7.5%
o-Xylene-mg/kg		0004966-04		0.1	0.106	106.0%	6.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004966-05		0.1	0.094	94.0%	
Toluene-mg/kg		0004966-05		0.1	0.098	98.0%	
Ethylbenzene-mg/kg		0004966-05		0.1	0.101	101.0%	
p/m-Xylene-mg/kg		0004966-05		0.2	0.212	106.0%	
o-Xylene-mg/kg		0004966-05		0.1	0.108	108.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0305982

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004978-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305982-01	478	500	939	92.2%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0305982-01	478	500	957	95.8%	1.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0004978-04		5000	4960	99.2%	

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Kristin Farris

Company Name RICE Operating

Company Address: 122 W. Taylor

City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Sampler Signature: 

Project Name: Cooper Fed. 'D' EOL

Project #:

Project Loc: EME

PO #: 787

[illegible]

ANALYTICAL REPORT

Prepared for:

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

Project: Cooper Fed 'D' EOL
PO#: 757
Order#: G0306117
Report Date: 04/02/2003

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#: G0306117
Project:
Project Name: Cooper Fed 'D' EOL
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>
0306117-01	Remed. Comp.	SOIL	3/27/03	3/28/03 19:55	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2 C		
	8015M					
	8021B/5030 BTEX					
	Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306117
Project:
Project Name: Cooper Fed 'D' EOL
Location: EME

Lab ID: 0306117-01
Sample ID: Remed. Comp.

8015M

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>
		4/1/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	661	10.0
TOTAL, C6-C35	661	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	113%	70	130
1-Chlorooctadecane	120%	70	130

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>
0005116-02		4/1/03 18:23	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	80%	80	120
Bromofluorobenzene	104%	80	120

Approval:

Cele D. Keene 4/10/03
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.

Date

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

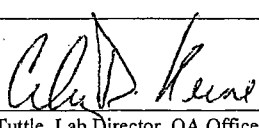
Order#: G0306117
Project:
Project Name: Cooper Fed 'D' EOL
Location: EME

Lab ID: 0306117-01
Sample ID: Remed. Comp.

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	319	mg/kg	1	20	9253	3/31/03	CK

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.

4/02/03
Date

RL = Reporting Limit N/A = Not Applicable

Page 1 of 1

ENVIRONMENTAL LAB OF TEXAS I, LTD.

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

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306117

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005102-02			<10.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306116-01	0	952	898	94.3%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0306116-01	0	952	923	97%	2.7%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005102-05		1000	907	90.7%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306117

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005116-02			<0.025		
Toluene-mg/kg		0005116-02			<0.025		
Ethylbenzene-mg/kg		0005116-02			<0.025		
p/m-Xylene-mg/kg		0005116-02			<0.025		
o-Xylene-mg/kg		0005116-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306119-01	0	0.1	0.089	89.%	
Toluene-mg/kg		0306119-01	0	0.1	0.092	92.%	
Ethylbenzene-mg/kg		0306119-01	0	0.1	0.100	100.%	
p/m-Xylene-mg/kg		0306119-01	0	0.2	0.209	104.5%	
o-Xylene-mg/kg		0306119-01	0	0.1	0.107	107.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306119-01	0	0.1	0.086	86.%	3.4%
Toluene-mg/kg		0306119-01	0	0.1	0.089	89.%	3.3%
Ethylbenzene-mg/kg		0306119-01	0	0.1	0.097	97.%	3.%
p/m-Xylene-mg/kg		0306119-01	0	0.2	0.204	102.%	2.4%
o-Xylene-mg/kg		0306119-01	0	0.1	0.103	103.%	3.8%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005116-05		0.1	0.085	85.%	
Toluene-mg/kg		0005116-05		0.1	0.089	89.%	
Ethylbenzene-mg/kg		0005116-05		0.1	0.095	95.%	
p/m-Xylene-mg/kg		0005116-05		0.2	0.199	99.5%	
o-Xylene-mg/kg		0005116-05		0.1	0.099	99.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306117

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005095-01			<20.0		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306109-02	0	500	532	106.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306109-02	0	500	517	103.4%	2.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0005095-04		5000	4960	99.2%	

12600 West I-20 East
Odessa, Texas 79763

Fax: 915-563-1713

Project Manager: Kristin Farris

Project Name: Cooper Fed. 'D' EOL

Company Name RICE Operating

Project #: _____

Company Address: 122 W. Taylor

Project Loc: EME

City/State/Zip: Hobbs, NM 88240

PO #: 757

Telephone No: (505) 393-9174 Fax No: (505) 397-1471

Fax No: (505) 397-1471

Sampler Signature:

[illegible]



Current Photodocumentation

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EME Cooper Fed 'D' EOL (1R427-19)
Unit Letter E, Section 26, T20S, R36E



Facing South

1/8/2013



Facing East

1/8/2013