1R - 427-31

APPROVALS

YEAR(S):

2013

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Wednesday, September 11, 2013 4:40 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 (1R427-31) Termination - ROC EME Penroc W.E.B. EOL Site

RE: Termination Request
for the Rice Operating Company's
EME Penroc W.E.B. EOL Site
Unit Letter C, Section 13, T21S, R35E, NMPM, Lea County, New Mexico
Remediation Plan (1R427-31) 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 September 5, 2013 (received September 9, 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 (1R427-31) 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 8937

September 5, 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

RE: Termination Request
EME Penroc W.E.B. EOL (1R427-31): UL/C Sec. 13, T21S, R35E
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 Penroc W.E.B. EOL junction box. The site is located in UL/C, Sec. 13, T21S, R35E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately 200 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 10 x 10 x 8 ft deep excavation. Each sample was field titrated for chlorides and field screened using a PID for hydrocarbons, resulting in slightly elevated chloride 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 for analysis of chloride and TPH, resulting in a sidewall chloride concentration of 496 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bottom composite resulted in a chloride concentration of 2,800 mg/kg and GRO and DRO concentrations below detectable limits. The remediated backfill resulted in a chloride concentration of 496 mg/kg and concentrations of GRO and DRO below detectable limits. BTEX was also analyzed, resulting in concentrations below detectable limits in all samples, except for in the sidewalls total xylenes

concentration, which resulted in a concentration of 0.026 mg/kg. The remediated soil was returned to the excavation to ground surface and contoured to the surrounding area.

To further investigate the depth of chloride presence, one soil bore was installed at the site September 18th, 2003. As the bore was advanced, samples were taken at regular intervals for chloride field testing. A representative sample was taken to a commercial laboratory for confirmation of field numbers. SB-1 returned a laboratory chloride result of 195 mg/kg at 30 ft bgs.

Vegetation has rebounded at this site; vegetation will act as an evapo-transpiration barrier that will also inhibit the downward migration of chlorides and hydrocarbons. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone. A junction box is no longer needed at the site.

The junction box site location map, area map, final report, photodocumentation, excavation diagram, chloride curve, 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)393-2967 if you have any questions or wish to discuss this site. Thank you for your time and consideration.

Sincerely,
RICE Operating Company

Laura Flores

Laura Flores
Environmental Project Assistant Manager

enclosures

Site Maps

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

RICE ENVIRONMENTAL CONSULTING & SAFETY, LLC

RECS

EME PENROC WEB EOL

UL C SECTION 13
T-21-S R-35-E
LEA COUNTY, NM

N
W E
S

0 1 2 Miles

Drawing date: 12/7/12
Drafted by: Tony Grieco

Area Map

RICE ENVIRONMENTAL RECS CONSULTING & SAFETY, LLC

EME Penroc WEB EOL (1R0427-31)

UL/C SECTION 13
T21S, R35E
LEA COUNTY, NM

N
W E
S

0 500 1,000 Feet

Drawing date: 6/18/13 LS

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		
							Length	Width	Depth
EME	W.E.B. EOL	C	13	21 S	35 E	Lea	8	5	5.5

LAND TYPE: BLM _____ STATE X FEE LANDOWNER _____ OTHER _____

Depth to Groundwater >200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 5/30/2003 Date Completed 9/18/2003 OCD Witness No

Soil Excavated 29 cubic yards Excavation Length 10 Width 10 Depth 8 feet

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

FINAL ANALYTICAL RESULTS: **Sample Date** 5/30/2003 **Sample Depth** 8 ft 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	Chloride mg/kg
SIDEWALLS	<0.025	<0.025	<0.025	0.026	<10.0	<10.0	496
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	2800
REMEDIATED	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0	496
BORE @ 30 ft	xxx	xxx	xxx	xxx	xxx	xxx	195

General Description of Remedial Action: The junction box site was delineated vertically and laterally producing a 10 x 10 x 8 ft bgs excavation. TPH was non-detect and chloride concentrations exhibited a vertical and lateral decline. However, the bottom composite yielded 2800 ppm. The excavated soil was blended on-site (496 ppm) and then backfilled into the hole. A watertight junction box was built over the location. Due to the elevated chloride concentration in the bottom composite, a soil bore was made adjacent to the junction. Returns were continuously tested for chloride during the boring until 30 ft bgs when a conclusive declination trend was observed (see graph). The impact remaining in place does not present a threat to human health, livestock, or groundwater at 200 feet below surface. The surface is expected to re-vegetate at a normal rate.

cc: chloride graph, diagram, lab results, photos

CHLORIDE FIELD TESTS

LOCATION	DEPTH (ft)	ppm
Vertical	4	1300
	8	950
bottom comp.	8	2200
4 wall comp.	n/a	400
remed. comp.	n/a	450
Soil Bore	30	314

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

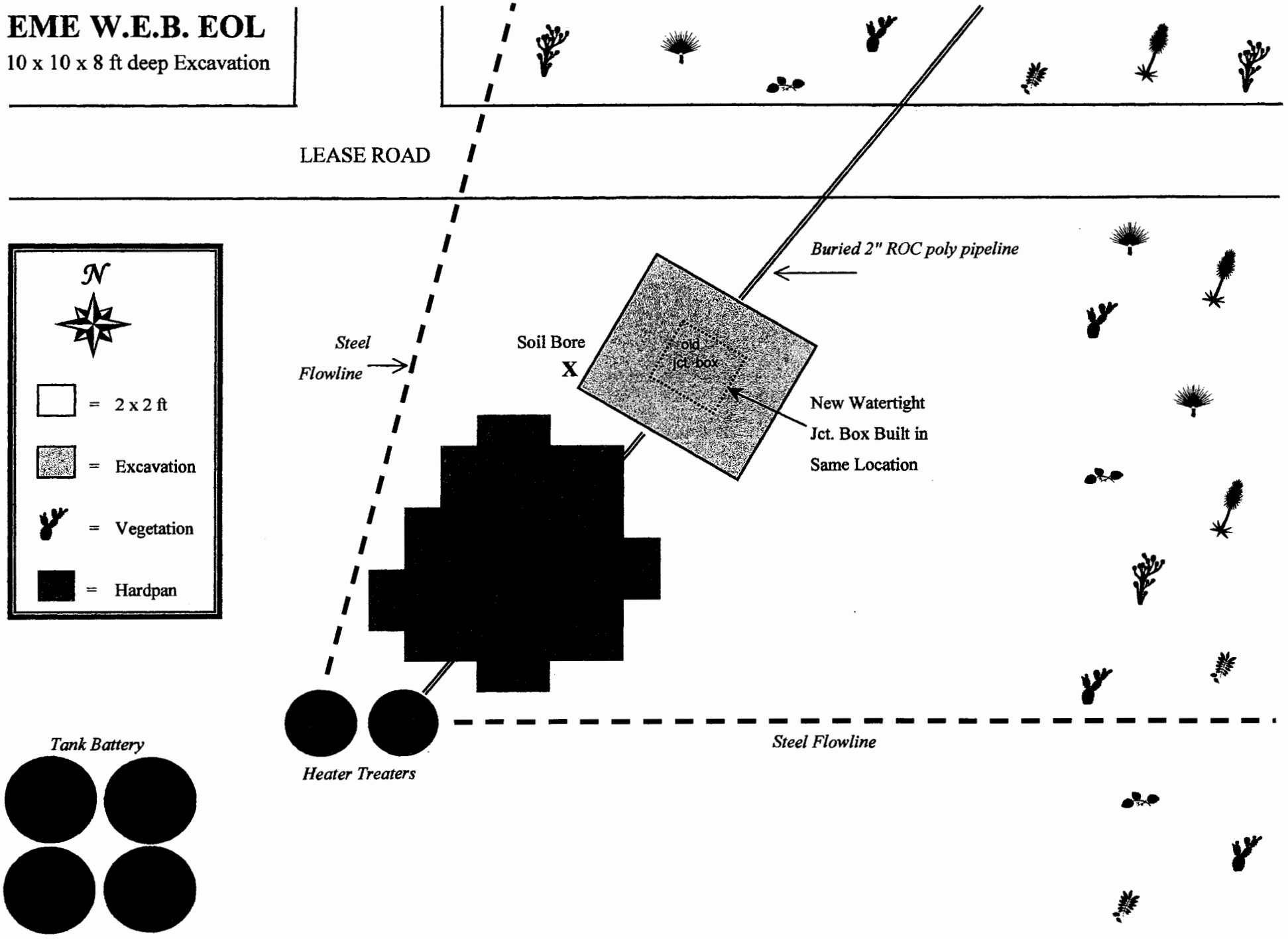
DATE 10/9/2003 PRINTED NAME Kristin Farris

SIGNATURE Kristin Farris TITLE Project Scientist

EME W.E.B. EOL

↑ Excavation ↓

Backfilled With New Junction Box


EME W.E.B. EOL
10 x 10 x 8 ft deep Excavation
LEASE ROAD
N
= 2 x 2 ft
= Excavation
= Vegetation
= Hardpan
Buried 2" ROC poly pipeline
Steel
Flowline
Soil Bore
X
old
jct. box
New Watertight
Jct. Box Built in
Same Location
Steel Flowline
Tank Battery
Heater Treaters

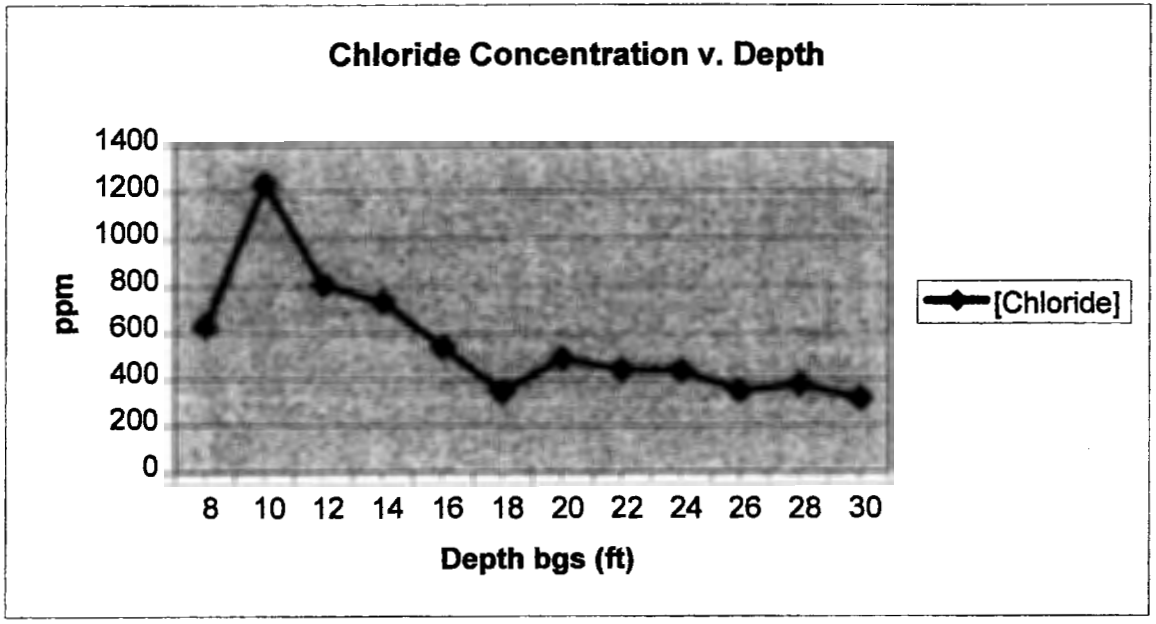
EME W.E.B. EOL

Unit 'C', Sec. 13, T21S, R35E

Soil Bore Next To Junction

Depth bgs (ft)	[Cl] ppm
8	627
10	1234
12	803
14	729
16	534
18	345
20	486
22	438
24	435
26	347
28	376
30	314

Groundwater = >200 ft



ANALYTICAL REPORT

Prepared for:

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

Project:	Penroe WEB EOL
PO#:	
Order#:	G0306609
Report Date:	06/06/2003

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#: G0306609
Project:
Project Name: Penroe WEB 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.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306609-01	Bottom Comp @ 8'	SOIL	5/30/03 14:00	5/30/03 16:35	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 1.0 C		
0306609-02	Wall Comp	SOIL	5/30/03 14:00	5/30/03 16:35	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 1.0 C		
0306609-03	Pile Comp	SOIL	5/30/03 14:00	5/30/03 16:35	4 oz glass	Ice
	Lab Testing: 8015M, 8021B/5030 BTEX, Chloride	**Rejected:** No		**Temp:** 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306609
Project:
Project Name: Penroe WEB EOL
Location: EME

Lab ID: 0306609-01
Sample ID: Bottom Comp @ 8'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/2/03	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	100%	70	130
1-Chlorooctadecane	110%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005728-02		6/2/03 12:45	1	25	JMM	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	90%	80	120
Bromofluorobenzene	105%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306609
Project:
Project Name: Penroe WEB EOL
Location: EME

Lab ID: 0306609-02
Sample ID: Wall Comp

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/2/03	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	103%	70	130
1-Chlorooctadecane	111%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005728-02		6/2/03 13:07	1	25	JMM	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.026	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	110%	80	120

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris		Order#:	G0306609
Rice Operating		Project:	
122 W. Taylor		Project Name:	Penroe WEB EOL
Hobbs, NM 88240		Location:	EME

Lab ID: 0306609-03
Sample ID: Pile Comp

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/2/03	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	104%	70	130
1-Chlorooctadecane	110%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005728-02		6/2/03 13:29	1	25	JMM	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	82%	80	120
Bromofluorobenzene	99%	80	120

Approval: Raland K Tuttle 6-06-03
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.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris		Order#:	G0306609
Rice Operating		Project:	
122 W. Taylor		Project Name:	Penroe WEB EOL
Hobbs, NM 88240		Location:	EME

Lab ID: 0306609-01
Sample ID: Bottom Comp @ 8'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	2800	mg/kg	1	20	9253	6/3/03	SB

Lab ID: 0306609-02
Sample ID: Wall Comp

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	496	mg/kg	1	20	9253	6/3/03	SB

Lab ID: 0306609-03
Sample ID: Pile Comp

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	496	mg/kg	1	20	9253	6/3/03	SB

Approval: Raland K Tuttle 6-06-03
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.

RL = Reporting Limit N/A = Not Applicable

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#: G0306609

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005708-02			<10.0		
MS SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0306609-01	0	952	1180	123.9%	
MSD SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0306609-01	0	952	1170	122.9%	0.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005708-05		1000	1068	106.8%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306609

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005728-02			<0.025		
Toluene-mg/kg	0005728-02			<0.025		
Ethylbenzene-mg/kg	0005728-02			<0.025		
p/m-Xylene-mg/kg	0005728-02			<0.025		
o-Xylene-mg/kg	0005728-02			<0.025		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005728-03		0.1	0.104	104.%	
Toluene-mg/kg	0005728-03		0.1	0.101	101.%	
Ethylbenzene-mg/kg	0005728-03		0.1	0.105	105.%	
p/m-Xylene-mg/kg	0005728-03		0.2	0.219	109.5%	
o-Xylene-mg/kg	0005728-03		0.1	0.109	109.%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005728-04		0.1	0.095	95.%	9.%
Toluene-mg/kg	0005728-04		0.1	0.092	92.%	9.3%
Ethylbenzene-mg/kg	0005728-04		0.1	0.094	94.%	11.1%
p/m-Xylene-mg/kg	0005728-04		0.2	0.196	98.%	11.1%
o-Xylene-mg/kg	0005728-04		0.1	0.096	96.%	12.7%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005728-05		0.1	0.104	104.%	
Toluene-mg/kg	0005728-05		0.1	0.101	101.%	
Ethylbenzene-mg/kg	0005728-05		0.1	0.100	100.%	
p/m-Xylene-mg/kg	0005728-05		0.2	0.207	103.5%	
o-Xylene-mg/kg	0005728-05		0.1	0.100	100.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306609

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005710-01			<20.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0306609-01	2800	500	3320	104.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0306609-01	2800	500	3330	106.%	0.3%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0005710-04		5000	4960	99.2%	

Environmental Lab of Texas I, Ltd.

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: Kristin Ferris
Company Name: Rice Operating
Company Address: 122 W Taylor
City/State/Zip: Hobbs, NM 88240
Telephone No:
Fax No:
Sampler Signature:

Project Name: [redacted] Penrose WEB EOL
Project #:
Project Loc: [redacted] EME
PO #:

LAB # (lab use only): 0306609

LAB #	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP: TPH: 418.1 / 8015M 1005 1006	Analyze For: TOTAL: TPH: 418.1 / 8015M 1005 1006	Analyze For: TOTAL: Cations (Ca, Mg, Na, K)	Analyze For: TOTAL: Anions (Cl, SO4, CO3, HCO3)	Analyze For: TOTAL: SAR / ESP / CEC	Analyze For: TOTAL: Metals: As Ag Ba Cd Cr Pb Hg Se	Analyze For: TOTAL: Volatiles	Analyze For: TOTAL: Semivolatiles	Analyze For: TOTAL: BTEX 8021B/5030	Analyze For: TOTAL: RCI	Analyze For: TOTAL: N.O.R.M.	Analyze For: TOTAL: Total Gamma	RUSH TAT (Pre-Schedule)	Standard TAT
01	Wall Comp	5-30-03	2:00P	1	X									X		X			X					X					
02	Bottom Comp @ 8'	5-30-03	2:00P	1	X									X		X			X					X					
03	Pile Comp.	5-30-03	2:00P	1	X									X		X			X					X					

Special Instructions: Fax to Rice

Sample Containers Intact? Y N
Temperature Upon Receipt: 1.0 °C
Laboratory Comments: Samples 01 + 02 were transposed + Changed Per Logan

Relinquished by:	Date	Time	Received by:	Date	Time
	5-30-03	4:30P	Anderson	3/30/03	1635
Relinquished by:	Date	Time	Received by ELOT:	Date	Time

To: Environmental Labs of Texas

Re: EME Penrod WEB EOL Results.
6-6-03

I mislabeled the jars sent to you. The jar with white calicle is the "Bottom comp @ 8'", and the jar with the red sand is the "Wall Comp". Could you please send the results again with the correction. Thank You.

Logan Anderson

RE Environmental

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: RICE OPERATING

Date/Time: 6/6/03 1530 hrs.

Order #: 0306609

Initials: KA

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	1.0 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	(Yes)	No	Not present
Custody Seals intact on sample bottles?	(Yes)	No	Not present
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	Yes	(No)	Sample field codes transpose
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	Yes	(No)	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	Yes	(No)	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	Yes	No	(Not Applicable)

Other observations:

Variance Documentation:

Contact Person: - Logan Anderson Date/Time: 6/6/03 1530 Contacted by: Raland Tuttle

Regarding:
Logan Called Raland & Advised the Labels on Samples 01 & 02 were transposed & Needed to be Changed.

Corrective Action Taken:

Labels were placed on proper Samples and Data was Corrected inhouse; A New Report was generated & faxed. KA 6/6/03 1550

ANALYTICAL REPORT

Prepared for:

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

Project:	EME Pen Roc Web EOL
PO#:	
Order#:	G0307650
Report Date:	10/08/2003

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#: G0307650
Project: Bore Samples
Project Name: EME Pen Roc Web EOL
Location: Non egIven

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.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0307650-01	8' W. Source @30'	SOIL	9/18/03 8:30	10/6/03 8:00	Plastic Bag	ice

Lab Testing:
Chloride

Rejected: No **Temp:** 4.0 C

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Kristin Farris		Order#:	G0307650
Rice Operating		Project:	Bore Samples
122 W. Taylor		Project Name:	EME Pen Roc Web EOL
Hobbs, NM 88240		Location:	Non egIven

Lab ID: 0307650-01
Sample ID: 8' W. Source @30'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	195	mg/kg	1	20	9253	10/7/03	SB

Approval: Celey D. Keene 10/9/03
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.

RL = Reporting Limit N/A = Not Applicable

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

Test Parameters

Order#: G0307650

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0007064-01			<20		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0307648-01	1030	500	1540	102.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0307648-01	1030	500	1560	106.%	1.3%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0007064-04		5000	4960	99.2%	

Environmental Lab of Texas, Inc.

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: KRISTIN FARRIS
Company Name: RICE OPER. Co.
Company Address: 122 W. TAYLOR
City/State/Zip: Hobbs, N.M. 88240
Telephone No: 505-393-9174 Fax No: 505-397-1471
Sampler Signature: Ray R. RASCON

Project Name: EME PENROC WELL EOL
Project #: BORE SAMPLES
Project Loc:
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO_3	Preservative: HCl	Preservative: NaOH	Preservative: H_2SO_4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (specify):	Analyze For: TCLP:	Analyze For: TOTAL: TDS / CL / SAR / EC	TPH 418.1	TPH TX 1005/1006	TPH 8015M GRO/DRO	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	C1-						RUSH TAT (Pre-Schedule)	Standard TAT
0307650																																
-01	B'W. SOURCE @ 30'	9-18-03	0830	1	✓									✓											✓							

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 4°C
Laboratory Comments: Plastic Bag

Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: C D Thompson	Date 10/3/03	Time 19:42	Received by ELOT: Tom Anderson	Date 10/6/03	Time 0800

Current Photodocumentation

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

EME Penroc W.E.B. EOL (1R427-31)
Unit Letter C, Section 13, T21S, R35E

Facing North 12/31/2012

Facing West 12/31/2012