1R - 427-63

APPROVALS

YEAR(S):

2013

Hansen, Edward J., EMNRD

From: Hansen, Edward J., EMNRD
Sent: Tuesday, March 26, 2013 10:10 AM
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 (1R427-63) Termination - ROC EME B-32 Site

RE: Termination Request
for the Rice Operating Company's
EME B-32 Site
Unit Letter B, Section 32, T19S, R37E, NMPM, Lea County, New Mexico
Remediation Plan (1R427-63) 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 March 8, 2013 (received March 13, 2013). The reports are 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 (1R427-63) 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*
112 West Taylor • Hobbs, New Mexico 88240
Phone: (575) 393-9174 • Fax: (575) 397-1471

CERTIFIED MAIL
RETURN RECEIPT NO. 7007 2560 0000 4569 9279

March 8, 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 B-32 (1R427-63): UL/B, Sec. 32, T19S, R37E
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 2002, ROC initiated work on the former B-32 junction box. The site is located in UL/B, Sec. 32, T19S, R37E. NM OSE records indicate that groundwater would likely be encountered at a depth of approximately <50 +/- feet. The site was delineated using a backhoe to collect soil samples at regular intervals, creating a 20x20x8 ft deep excavation. Each sample was field titrated for chlorides, resulting in slightly elevated chloride concentrations. Representative samples were collected from the excavation walls and excavation bottom and sent to a commercial laboratory for analysis. The sidewall sample resulted in a chloride concentration of 595 mg/kg and concentrations of gasoline range organics (GRO) and diesel range organics (DRO) below detectable limits. The bottom composite sample resulted in a chloride concentration of 698 mg/kg and concentrations of GRO and DRO below detectable limits. Both samples were also analyzed for BTEX, resulting in concentrations below detectable limits throughout.

To further investigate the depth of chloride presence, a soil bore was installed on February 28, 2002 to a total depth of 20 ft below ground surface (bgs). Samples were collected every 5 ft and field titrated for chlorides, resulting in concentrations that decreased with depth. The 20 ft sample was sent to a commercial laboratory for analysis,

resulting in a chloride concentration of 22 mg/kg and GRO, DRO and BTEX concentrations below detectable limits.

A total of 108 cubic yards of excavated soil was properly disposed of at a NMOCD facility. A compacted clay liner was installed and the excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. The liner would provide a barrier that will inhibit the downward migration of chlorides to groundwater. Vegetation has rebounded at the site, so no re-vegetation efforts are needed. Vegetation above the liner will act as an evapo-transpiration barrier that will also inhibit the downward migration of residual chlorides and hydrocarbons. Plants capture water through their roots and so reduce the amount of water infiltrating below the root zone. A junction box was no longer required at this site.

The junction box site location map, final report, soil bore log, laboratory analysis, disposal manifests and current photodocumentation are attached.

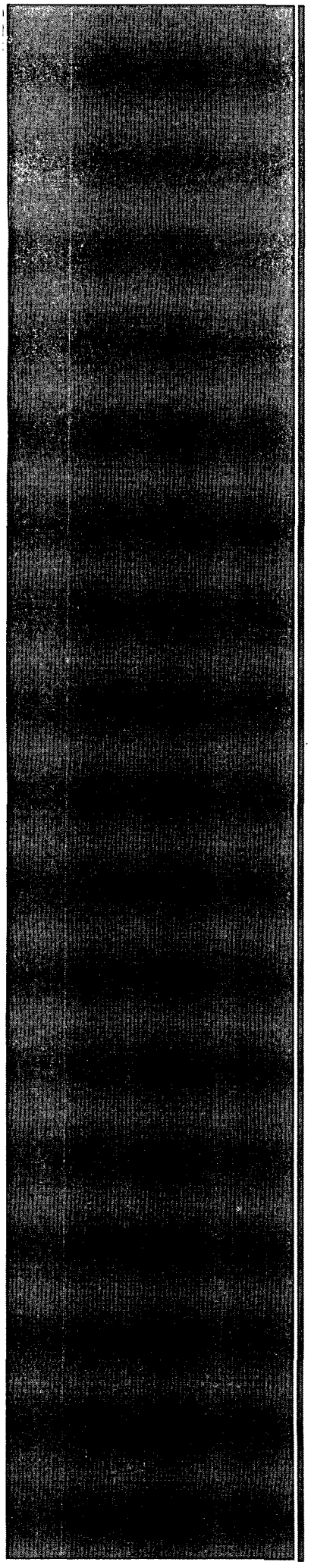
Recommendations
Site investigation demonstrates that residual chloride and hydrocarbons in the vadose zone will not with reasonable probability contaminate groundwater in excess of NMOCD standards. This site meets the requirements of the NMOCD-approved Revised Junction Box Upgrade Work Plan (July 16, 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

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

Site Location Map

RICE ENVIRONMENTAL CONSULTING & SAFETY, LLC
RECS

EME B-32

LEGALS: UL/B sec. 32
T-19-S R-37-E
LEA COUNTY, NM

NMOCD CASE #: 1R427-63

N
W E
S

0 0.4 0.8
Miles

Drawing date: 3/6/13
Drafted by: L. Weinheimer

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	B-32	B	32	19S	37E	LEA			

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

Depth to Groundwater <50 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 2/13/2002 Date Completed 3/12/2002 OCD Witness NO

Soil Excavated 120 cubic yards Excavation Length 20 Width 20 Depth 8 feet

Soil Disposed 108 cubic yards Offsite Facility J & L /Sundance Location MONUMENT/EUNICE, NM

FINAL ANALYTICAL RESULTS: **Sample Date** 3/12/2002 **Sample Depth** 8'

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	<10	595
BOTTOM	<0.025	<0.025	<0.025	<0.025	<10	<10	698
Boring @20'	<0.025	<0.025	<0.025	<0.025	<10	<10	22

General Description of Remedial Action: Delineated vertical and lateral extent.

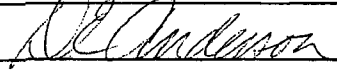
At 12' bgs chlorides were 450 ppm. Completed a soil boring on 2/28/02 which demonstrated a drop in chlorides from 770 ppm @ 5' to 100 ppm @ 20' bgs. These results indicate the impact stopped before reaching groundwater. Hauled high impact soil to a permitted disposal facility. Installed a compacted clay barrier to vertical transmissivity and backfilled with fresh soil. This site is no longer a junction and does not require a box.

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
SIDEWALLS	7'	600
BOTTOM	8'	650
Soil Boring	5'	770
	10'	340
	15'	90
	20'	100

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

DATE March 22, 2002 PRINTED NAME D. E. Anderson

SIGNATURE  TITLE Project Leader - Environmental

DRILLING LOG	Site Name/Location				Logged by: DEA
RICE *Operarting Company* 122 West Taylor Hobbs, New Mexico 88240 Phone: (505) 393-9174 Fax: (505) 397-1471	**Jct. Box B-32** **32-T19S-R37E** **EME** **SWD System** **Lea County, NM**	Well No.: N/A	Date Drilled: 2/28/02	Driller: Eades	Construction: Plugged boring w/ 20' bentonite, water & backfill
		Well Depth: N/A	Boring Depth: 20'	Well Material: N/A	
		Casing Length: N/A	Boring Diameter: 4.75"	Casing Size: N/A	
		Screen Length: N/A	Drilling Method: Air Rotary	Slot Size: N/A	

DEPTH	SUBSURFACE LITHOLOGY	SAMPLE TYPE	TEST (ppm) Cl⁻	REMARKS	Boring
0	Ground surface				
1	Topsoil				
2	Caliche				
3					
4					
5		Grab	770	Field Test	
6					cuttings
7					
8					
9					
10		Grab	340	Field Test	
11					
12					
13					
14	Dry clay and sanstone stringers				
15		Grab	90	Field Test	
16					
17	Sandstone				
18	Sandy clay and sandstone stringers				
19					
20		Grab	100	Field Test	

ANALYTICAL REPORT

Prepared for:

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

B-32

Project:	Rice
Order#:	G0202810
Report Date:	03/19/2002

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#: G0202810
Project:
Project Name: Rice
Location: B-32

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.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0202810-01	4 pt Wall Comp. @7'	SOIL	03/11/2002 13:00	03/12/2002 16:30	4 oz Glass	ice
	Lab Testing:	Rejected: No		Temp: 22C		
	8015M TPH GRO/DRO 8021B/5030 BTEX Chloride					
0202810-02	5 pt . Bottom Comp. @8'	SOIL	03/12/2002 9:00	03/12/2002 16:30	4 oz Glass	ice
	Lab Testing:	Rejected: No		Temp: 22C		
	8015M TPH GRO/DRO 8021B/5030 BTEX Chloride					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0202810
Project:
Project Name: Rice
Location: B-32

Lab ID: 0202810-01
Sample ID: 4 pt Wall Comp. @7'

8015M TPH GRO/DRO

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		03/14/2002 15:13	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10	10.0
DRO, >C12-C28	<10	10.0
Total C6-C28	<10	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0000901-02		03/14/2002 17:28	1	1	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Lab ID: 0202810-02
Sample ID: 5 pt . Bottom Comp. @8'

8015M TPH GRO/DRO

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		03/14/2002 15:23	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10	10.0
DRO, >C12-C28	<10	10.0
Total C6-C28	<10	10.0

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON		Order#:	G0202810
RE ENVIRONMENTAL		Project:	
P.O. BOX 13418		Project Name:	Rice
ODESSA, TX 79768		Location:	B-32

Lab ID: 0202810-02
Sample ID: 5 pt . Bottom Comp. @8'

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0000901-02		03/14/2002 17:50	1	1	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25.0	25.0
Ethylbenzene	<25.0	25.0
Toluene	<25.0	25.0
p/m-Xylene	<25.0	25.0
o-Xylene	<25.0	25.0

Approval: Celey Keene 3/19/02
Date

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Irene Perry, QA Assistant
Sandra Biezugbe, Lab Tech.
Curt Cowdrey, Lab Tech.
Sara Molina, Lab Tech.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DEREK ROBINSON
RE ENVIRONMENTAL
P.O. BOX 13418
ODESSA, TX 79768

Order#: G0202810
Project:
Project Name: Rice
Location: B-32

Lab ID: 0202810-01
Sample ID: 4 pt Wall Comp. @7'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	595	mg/kg	1	10	9253	03/18/2002	SB

Lab ID: 0202810-02
Sample ID: 5 pt. Bottom Comp. @8'

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	698	mg/kg	1	10	9253	03/18/2002	SB

Approval: Celey Keene 3/19/02
Date

Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Irene Perry, QA Assistant
Sandra Biezugbe, Lab Tech.
Curt Cowdrey, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M TPH GRO/DRO

Order#: G0202810

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0000871-02			<10		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0202809-05	0	952	942	98.9%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0202809-05	0	952	940	98.7%	0.2%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total C6-C28-mg/kg	0000871-05		1000	1039	103.9%	0.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0202810

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0000901-02			<25.0		
Ethylbenzene-µg/kg	0000901-02			<25.0		
Toluene-µg/kg	0000901-02			<25.0		
p/m-Xylene-µg/kg	0000901-02			<25.0		
o-Xylene-µg/kg	0000901-02			<25.0		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0202807-07	0	100	97.8	97.8%	
Ethylbenzene-µg/kg	0202807-07	0	100	97.9	97.9%	
Toluene-µg/kg	0202807-07	0	100	98.6	98.6%	
p/m-Xylene-µg/kg	0202807-07	0	200	202	101.%	
o-Xylene-µg/kg	0202807-07	0	100	97.9	97.9%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0202807-07	0	100	94.5	94.5%	3.4%
Ethylbenzene-µg/kg	0202807-07	0	100	95.1	95.1%	2.9%
Toluene-µg/kg	0202807-07	0	100	96.2	96.2%	2.5%
p/m-Xylene-µg/kg	0202807-07	0	200	197	98.5%	2.5%
o-Xylene-µg/kg	0202807-07	0	100	95.3	95.3%	2.7%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0000901-05		100	113	113.%	0.%
Ethylbenzene-µg/kg	0000901-05		100	111	111.%	0.%
Toluene-µg/kg	0000901-05		100	114	114.%	0.%
p/m-Xylene-µg/kg	0000901-05		200	230	115.%	0.%
o-Xylene-µg/kg	0000901-05		100	113	113.%	0.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0202810

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0000902-01			<5.00		
CONTROL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0000902-02		5000	5050	101.%	
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0202812-01	886	556	1450	101.4%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0202812-01	886	556	1460	103.2%	0.7%

Environmental Lab of Texas, Inc.

600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Derek Robinson
Company Name: LE Environmental
Company Address:
City/State/Zip:
Telephone No: Fax No:
Sampler Signature:

Project Name: Rice
Project #:
Project Loc: 8-32
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	Preservative: HNO3	Preservative: HCl	Preservative: NaOH	Preservative: H2SO4	Preservative: None	Preservative: Other (Specify)	Matrix: Water	Matrix: Sludge	Matrix: Soil	Matrix: Other (Specify)	Analyze For: TCLP	Analyze For: TOTAL	Analyze For: BTEX 8021B/8260	RUSH TAT (Pre-Schedule)	Standard TAT
2810-01	4pt Wall Comp. @ 7'	3-11-02	1:00pm	1	X									X		X	X	X		
-02	5pt. Bottom Comp. @ 8'	3-12-02	9:00Am	1	X									X		X	X	X		

Special Instructions:
Fax Results to Donnie Anderson & Derek Robinson

Sample Containers intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
22 °C

Relinquished by:	Date	Time	Received by:	Date	Time
	3-12-02	4:30pm			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
				3-12-02	1630

Mar 20 02 03:53p

p.9

ANALYTICAL REPORT

Prepared for:

DONNIE ANDERSON
RICE OPERATING CORP.
122 WEST TAYLOR
HOBBS, NM 88242

Project:	Jct B-32 Soil bore box Upgrade
Order#:	G0202743
Report Date:	03/07/2002

Certificates
US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

RICE OPERATING CORP.
122 WEST TAYLOR

HOBBS, NM 88242

Order#: G0202743
Project: Soil bore @ 20' bgs
Project Name: Jct B-32 Soil bore box Upgrade
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.

			Date / Time	Date / Time		
0202743-01	Soil bore @ 20' bgs	SOIL		3/5/02 17:00	4 oz Glass	ice

Lab Testing: **Rejected:** No **Temp:** 7C

8015M TPH GRO/DRO
8021B/5030 BTEX
Chloride

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON		Order#:	G0202743
RICE OPERATING CORP.		Project:	Soil bore @ 20' bgs
122 WEST TAYLOR		Project Name:	Jct B-32 Soil bore box Upgrade
HOBBS, NM 88242		Location:	EME

Lab ID: 0202743-01
Sample ID: Soil bore @ 20' bgs

8015M TPH GRO/DRO

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0000785-02		3/6/02 14:21	1	1	CK	8015

Parameter	Result mg/kg	RL
GRO, C6-C12	<10	10.0
DRO, >C12-C28	<10	10.0

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0000783-02		3/6/02 16:56	1	1	CK	8021B

Parameter	Result µg/kg	RL
Benzene	<25	25.0
Ethylbenzene	<25	25.0
Toluene	<25	25.0
p/m-Xylene	<25	25.0
o-Xylene	<25	25.0

Approval: Raland K Tuttle 3-07-02
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Irene Perry, QA Assistant
Sandra Biezugbe, Lab Tech.
Curt Cowdrey, Lab Tech.
Sara Molina, Lab Tech.

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

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

DONNIE ANDERSON		Order#:	G0202743
RICE OPERATING CORP.		Project:	Soil bore @ 20' bgs
122 WEST TAYLOR		Project Name:	Jct B-32 Soil bore box Upgrade
HOBBS, NM 88242		Location:	EME

Lab ID: 0202743-01
Sample ID: Soil bore @ 20' bgs

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	22.0	mg/kg	1	5.0	9253	3/6/02	SB

Approval: Raland K Tuttle 3-07-02
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Irene Perry, QA Assistant
Sandra Biezugbe, Lab Tech.
Curt Cowdrey, 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 TPH GRO/DRO

Order#: G0202743

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0000785-02			<10		
DRO, >C12-C28-mg/kg	0000785-02			<10		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0202740-01	0	476	447	93.9%	
DRO, >C12-C28-mg/kg	0202740-01	0	476	563	118.3%	
MSD	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0202740-01	0	476	424	89.1%	5.3%
DRO, >C12-C28-mg/kg	0202740-01	0	476	506	106.3%	10.7%
SRM	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0000785-05		500	441	88.2%	0.%
DRO, >C12-C28-mg/kg	0000785-05		500	524	104.8%	0.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0202743

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-µg/kg	0000783-02			<25		
Ethylbenzene-µg/kg	0000783-02			<25		
Toluene-µg/kg	0000783-02			<25		
p/m-Xylene-µg/kg	0000783-02			<25		
o-Xylene-µg/kg	0000783-02			<25		
MS	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-µg/kg	0202728-02	0	100	112	112.%	
Ethylbenzene-µg/kg	0202728-02	0	100	111	111.%	
Toluene-µg/kg	0202728-02	0	100	113	113.%	
p/m-Xylene-µg/kg	0202728-02	0	200	230	115.%	
o-Xylene-µg/kg	0202728-02	0	100	112	112.%	
MSD	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-µg/kg	0202728-02	112	100	113	113.%	0.9%
Ethylbenzene-µg/kg	0202728-02	111	100	112	112.%	0.9%
Toluene-µg/kg	0202728-02	113	100	113	113.%	0.%
p/m-Xylene-µg/kg	0202728-02	230	200	228	114.%	0.9%
o-Xylene-µg/kg	0202728-02	112	100	114	114.%	1.8%
SRM	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-µg/kg	0000783-05		100	112	112.%	0.%
Ethylbenzene-µg/kg	0000783-05		100	111	111.%	0.%
Toluene-µg/kg	0000783-05		100	114	114.%	0.%
p/m-Xylene-µg/kg	0000783-05		200	229	114.5%	0.%
o-Xylene-µg/kg	0000783-05		100	112	112.%	0.%

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0202743

BLANK	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0000787-01			<5.00		
MS	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0202739-01	248	667	910	99.3%	
MSD	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0202739-01	248	667	922	101.%	1.3%
SRM	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0000787-04		5000	5050	101.%	0.%

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: DONNIE ANDERSON
Company Name: RICE OPERATING COMPANY
Company Address: 122 W. TAYLOR
City/State/Zip: HOBBS, NEW MEXICO, 88240
Telephone No: (505) 393-9174 Fax No: (505)397-1471
Sampler Signature: D Anderson

Project Name: Jct B-32 soil bore backgrade
Project #: Soil bore @ 20' bgs
Project Loc: EME
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO3	HCl	NaOH	H2SO4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: 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									RUSH TAT (Pre-Schedule)	Standard TAT
743-01	Soil bore @ 20' bgs			1	✓									✓		✓			✓				✓										

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt: 7°C
Laboratory Comments:

Relinquished by:	Date	Time	Received by:	Date	Time
D Anderson	030502	1100		3-5-02	11:00AM
	Date	Time	Received by ELOT:	Date	Time
	3-5-02	5pm	Tracy B Worley	3-5-02	17:00

Aug 07 01 10:22a

P.2

J & L LANDFARM, INC.
P.O. BOX 356
HOBBS, NEW MEXICO 88241-0356
PHONE (505) 393-9697 • PERMIT # NM-01-0023

0201

Generator/Company Rice Operating Co.

Authorized Representative Donnie Anderson

Originating Site B-@ 32
S-32 T 19S R 37E

Transporter R/E Construction

Authorized Representative Chuck Robinson

Brief Description of Material Non-Haz Soil

Estimated Volume 96 yards

TPH See Test

BE-TEX " "

CERTIFICATE OF CHEMICAL ANALYSIS (if required) N/A

Lee M. Roberts
FACILITY AUTHORIZED REPRESENTATIVE

March 12 2002
DATE

B-3186

Sundance Services, Inc.

P.O. Box 1737 ★ Eunice, NM 88231
(505) 394-2511

№ 48799

LEASE OPERATOR/SHIPPER/COMPANY: Mice

LEASE NAME: E.M.E. Swd

TRANSPORTER COMPANY: Dirt Work | TIME: AM/PM

DATE: 1/3/12 VEHICLE NO.: 101 DRIVER NO.:

CHARGE TO: Mice

TYPE OF MATERIAL S32 T20S R37E System EME SWD

[ ] Production Water [ ] Drilling Fluids [ ] Completion Fluids
[ ] Tank Bottoms [ ] Contaminated soil [ ] C-117 No.: _____
[ ] Other Material: [ ] BS&W Content: _____ Job B 32 Wellhead 7/16

Description: OD

VOLUME OF MATERIAL [ ] BBLS. _____ : [ ] YARD 12 : [ ] _____

AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, OPERATOR/SHIPPER REPRESENTS AND WARRANTS THAT THE WASTE MATERIAL SHIPPED HEREWITH IS MATERIAL EXEMPT FROM THE RESOURCE, CONSERVATION AND RECOVERY ACT OF 1976, AS AMENDED FROM TIME TO TIME, 40 U.S.C. § 6901, et seq., THE NM HEALTH AND SAF. CODE § 361.001, et seq., AND REGULATIONS RELATED THERETO, BY VIRTUE OF THE EXEMPTION AFFORDED DRILLING FLUIDS, PRODUCED WATERS, AND OTHER WASTE ASSOCIATED WITH THE EXPLORATION, DEVELOPMENT OR PRODUCTION OF CRUDE OIL OR NATURAL GAS OR GEOTHERMAL ENERGY.

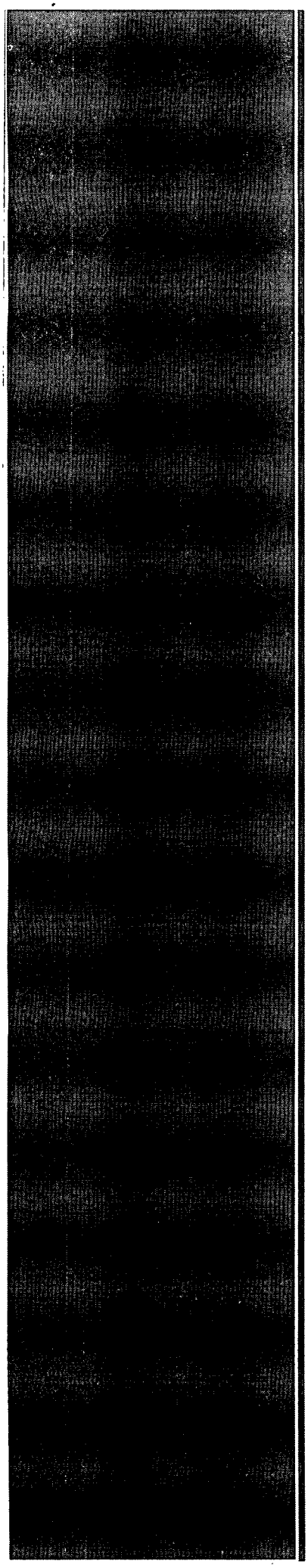
ALSO AS A CONDITION TO SUNDANCE SERVICES, INC.'S ACCEPTANCE OF THE MATERIALS SHIPPED WITH THIS JOB TICKET, TRANSPORTER REPRESENTS AND WARRANTS THAT ONLY THE MATERIAL DELIVERED BY OPERATOR/SHIPPER TO TRANSPORTER IS NOW DELIVERED BY TRANSPORTER TO SUNDANCE SERVICES, INC.'S FACILITY FOR DISPOSAL.

THIS WILL CERTIFY that the above Transporter loaded the material represented by this Transporter Statement at the above described location, and that it was tendered by the above described shipper. This will certify that no additional materials were added to this load, and that the material was delivered without incident.

DRIVER: _____ 101
(SIGNATURE)

FACILITY REPRESENTATIVE: _____
(SIGNATURE)

White-Sundance Canary-Sundance Acct#1 Pink-Sundance Acct#2 Gold-Transporter
Revised 12/27/95



Current Photodocumentation

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

EME B-32

UL/B, Section 32, T19S, R37E

Facing east 2/18/2013

Facing west 2/18/2013