

1R - 427-360

REPORTS

DATE:

3-29-11

1R427-360

EME C-10 EOL

2010

RECEIVED

APR - 1 2011

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

CLOSURE

**RICE OPERATING COMPANY
JUNCTION BOX FINAL REPORT**

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Eunice Monument Eumont (EME)	C-10 EOL	C	10	21S	36E	Lea	Length	Width	Depth
							Eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Millard Deck OTHER _____

Depth to Groundwater 200 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20*

Date Started 9/29/2010 Date Completed 10/27/2010 OCD Witness no

Soil Excavated 133.3 cubic yards Excavation Length 30 Width 10 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 10/5/2010 Sample Depth 12 ft

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

CHLORIDE FIELD TESTS

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	16.4	<10.0	<10.0	640
BOTTOM COMP.	0.7	<10.0	<10.0	592
BACKFILL COMP.	0.0	<10.0	<10.0	528

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	486
Bottom Comp.	12'	576
Backfill Comp.	n/a	513
Vertical delineation trench at 5 ft. south of (source)	2	285
	4	668
	6	651
	8	645
	10	612
	12	499

General Description of Remedial Action: This junction and line were eliminated during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30x10x12 ft-deep excavation. Chloride field tests performed on each sample yielded relatively low concentrations. Organic vapors were measured using a PID, which yielded low concentrations. The excavated soil was blended on site

and representative composite samples were collected from the blended backfill, the bottom of the excavation, and the excavation walls. The representative samples were sent to a commercial laboratory for analysis of chloride and TPH. The blended backfill was returned to the excavation to 2 ft below ground surface (BGS). The remaining excavation was backfilled with clean, imported soil to ground surface and contoured to the surrounding area. On 10/27/2010, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate.

*Housing and Windmill 1258 ft west

Enclosures: photos, lab results, PID (field) screenings, chloride curve

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

SITE SUPERVISOR Dak Harris SIGNATURE *Dak Harris* COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Robert Egans INITIAL *RE*

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE *Larry Bruce Baker Jr.* DATE 3-29-11

EME C-10 EOL

Unit C, Section 10, T21S, R36E



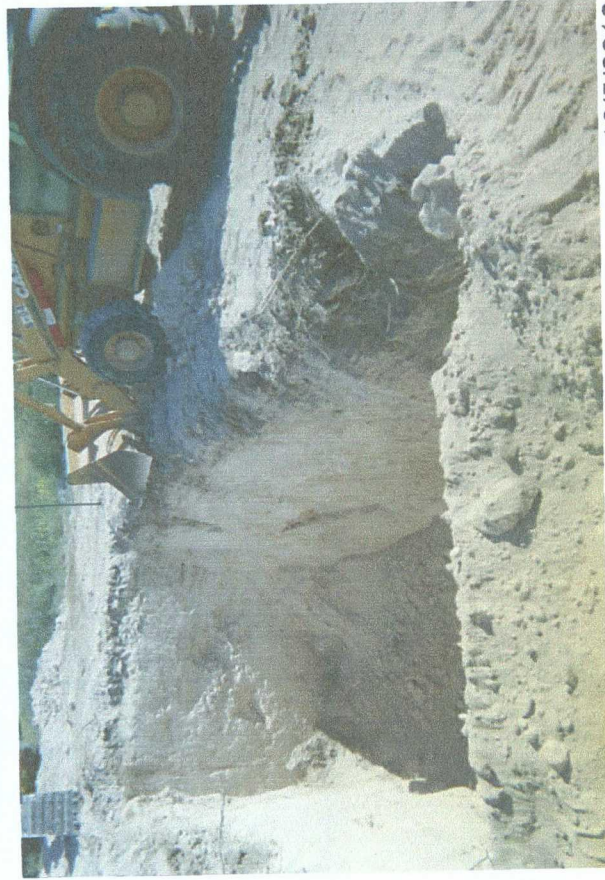
Site prior to delineation

9/29/2010



Collecting sample

9/29/2010



Final delineation trench

10/5/2010



Covering seed

10/27/2010



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 13, 2010

Bruce Baker
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: EME C-10 EOL (21/36)

Enclosed are the results of analyses for samples received by the laboratory on 10/05/10 16:27.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

Rice Operating Company
Bruce Baker
112 W. Taylor
Hobbs NM, 88240
Fax To: (575) 397-1471

Received:	10/05/2010	Sampling Date:	10/05/2010
Reported:	10/13/2010	Sampling Type:	Soil
Project Name:	EME C-10 EOL (21/36)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: 5 PT BOTTOM COMP @ 12' (H020981-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	592	16.0	10/07/2010	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/12/2010	ND	187	93.7	200	13.2		
DRO >C10-C28	<10.0	10.0	10/12/2010	ND	192	96.1	200	3.60		
Surrogate: 1-Chlorooctane	98.4 %	70-130								
Surrogate: 1-Chlorooctadecane	110 %	70-130								

Sample ID: 4 WALL COMP @ 10 X 30 (H020981-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	640	16.0	10/07/2010	ND	416	104	400	0.00			
TPH 8015M		mg/kg		Analyzed By: AB							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	<10.0	10.0	10/12/2010	ND	187	93.7	200	13.2			
DRO >C10-C28	<10.0	10.0	10/12/2010	ND	192	96.1	200	3.60			
<hr/>											
Surrogate: 1-Chlorooctane		129 %	70-130								
Surrogate: 1-Chlorooctadecane		146 %	70-130								

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 2 of 5

Analytical Results For:

 Rice Operating Company
 Bruce Baker
 112 W. Taylor
 Hobbs NM, 88240
 Fax To: (575) 397-1471

Received:	10/05/2010	Sampling Date:	10/05/2010
Reported:	10/13/2010	Sampling Type:	Soil
Project Name:	EME C-10 EOL (21/36)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		


Sample ID: BLENDED BACKFILL (H020981-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	10/07/2010	ND	416	104	400	0.00	
TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/12/2010	ND	187	93.7	200	13.2	
DRO >C10-C28	<10.0	10.0	10/12/2010	ND	192	96.1	200	3.60	
Surrogate: 1-Chlorooctane		101 %	70-130						
Surrogate: 1-Chlorooctadecane		120 %	70-130						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

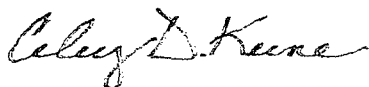
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

 Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

BILL TO		ANALYSIS REQUEST									
Company Name: Rice Operating Company		P.O. #:									
Project Manager: Bruce Baker		Company:									
Address: 122 W. Taylor		Attn:									
City: Hobbs		State: NM	Zip: 88240								
Phone #: 575-293-9174		Fax #: 575-397-1471									
Project #:		Project Owner:									
Project Name:		State:	Zip:								
Project Location: EME C-10 FOL (A1-36)		Phone #:									
Sampler Name: Daryl Harris		Fax #:									
Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING	DATE	TIME					
H20981-1	5 PT Bottom Comp @ 10' 30"	GROUNDWATER	✓	✓	10/5/10	10:10	✓	✓	✓	✓	✓
2	4 wall comp @ 10' 30"	WASTEWATER	✓	✓	10/5/10	10:40	✓	✓	✓	✓	✓
3	Blended Backfill	SLUDGE	✓	✓	10/5/10	11:48	✓	✓	✓	✓	✓
		OIL									
		SOIL									
		ACID/BASE									
		ICE / COOL									
		OTHER:									
		(G) RAB OR (C) OMP									
		# CONTAINERS									

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Relinquished By: Daryl Harris Date: 10/5/10 Time: 11:48

Received By: John Henderson Date: 10/5/10 Time: 11:48

Delivered By: (Circle One) Daryl Harris

Sampler - UPS - Bus - Other: UPS

Phone Result: ☐ Yes ☐ No Add'l Phone #: 505-393-2326

Fax Result: ☐ Yes ☐ No Add'l Fax #: 505-393-2476

REMARKS: E-Mail Results To: K Jones @ Rice Sud. com
Baker
Kegans

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26

RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240
 PHONE: (505) 393-9174 FAX: (505) 397-1471
 PID METER CALIBRATION & FIELD REPORT FORM

CK.	<input checked="" type="checkbox"/>
MODEL	
NO.	

MODEL: PGM 7300	SERIAL NO: 590-000508
MODEL: PGM 7300	SERIAL NO: 590-000504
MODEL: PGM 7320	SERIAL NO: 592-903318
MODEL: PGM 7300	SERIAL NO: 590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 925621	EXPIRATION DATE: 9-27-12
METER READING ACCURACY: 100	

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	C-10 EOL	C	10	21	36

SAMPLE ID	PID	SAMPLE ID	PID
BOTTOM 5PT COMP	0.7		
Blended Backfill	0		
4 WALL COMP.	16.4		

COPY

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATURE: *Das Amis*

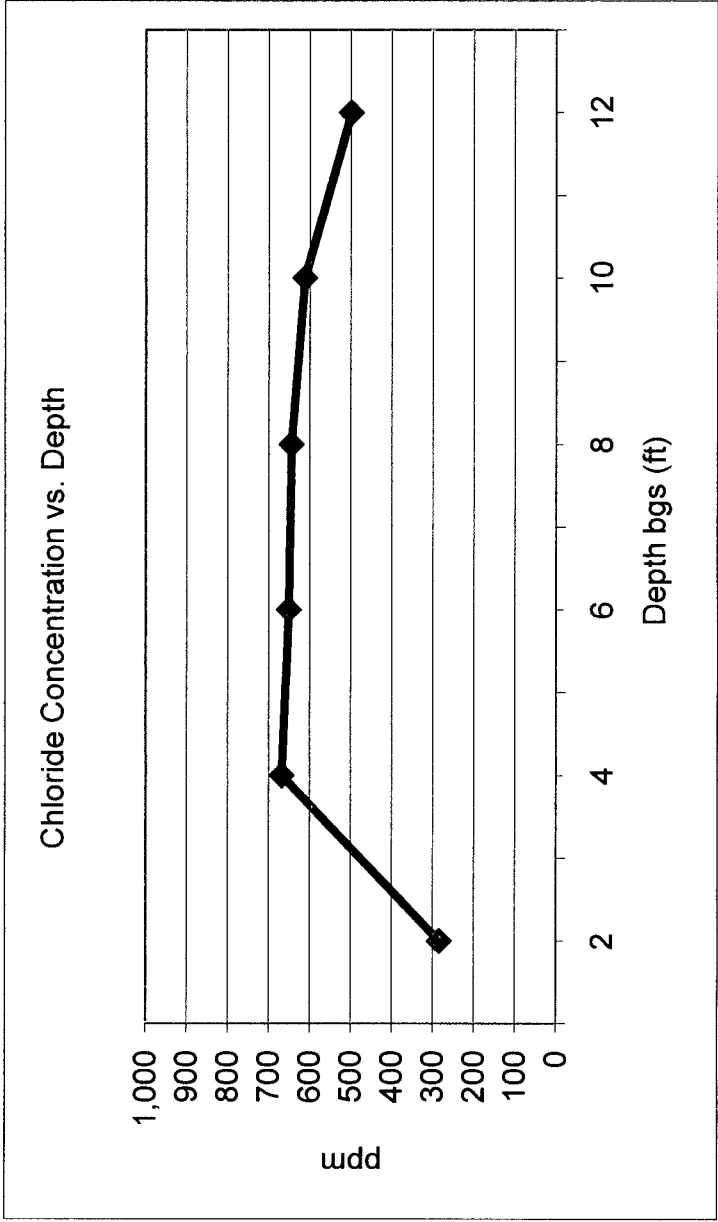
DATE: 10/5/10

Unit 'C', Sec. 10, T21S, R36E

Backhoe samples at 5' south of the junction (source)

Depth bgs (ft)	[Cl ⁻] ppm
2	285
4	668
6	651
8	645
10	612
12	499

Chloride Concentration vs. Depth



Groundwater = 200 ft