

1R - 427-362

**REPORTS**

**DATE:**

4-17-12

1R427-362

RECEIVED OGD

2012 MAY -1 P 1:50

EME C-5 EOL

2011

DISCLOSURE

**RICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE\* REPORT**

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Eunice Monument Eumont (EME)	C-5 EOL	C	5	21S	36E	Lea	Length	Width	Depth
							Eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE X FEE LANDOWNER \_\_\_\_\_ OTHER \_\_\_\_\_

Depth to Groundwater 162 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 10/21/2011 Date Completed 12/28/2011 OCD Witness No

Soil Excavated 166.7 cubic yards Excavation Length 25 Width 15 Depth 12 feet

Soil Disposed 72 cubic yards Offsite Facility Sundance Services Location Eunice, NM

**FINAL ANALYTICAL RESULTS:** Sample Date 11/23/2011 Sample Depth 12'

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
BOTTOM COMP.	6.7	<10.0	73.7	912
4-WALL COMP.	9.7	<10.0	50.7	304
BLENDED BACKFILL	7.4	<10.0	31.5	256

LOCATION	DEPTH	mg/kg
bottom comp.	12'	683
4-wall comp.	N/A	468
blended backfill	N/A	293
background	6"	178
vertical delineation trench at 15' east of source	2'	115
	4'	286
	6'	367
	8'	412
	10'	390
	12'	622

**General Description of Remedial Action:** This junction was 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 25x15x12-ft excavation. Chloride field tests performed on each sample yielded concentrations that increased with depth. Organic vapors were measured using a PID which yielded relatively low concentrations. The excavated soil was blended on site, and representative composite samples of the excavation bottom, the excavation walls, and the blended backfill were sent to a commercial laboratory for analysis of chloride and TPH. The excavation was backfilled with the blended backfill soil to ground surface and contoured to the surrounding area. A total of 72 yards of soil was taken to a NMOCD approved disposal facility. On 12/28/2011, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at a normal rate. NMOCD was notified of potential groundwater impact on 4/9/2012.

**ADDITIONAL EVALUATION IS LOW PRIORITY**

enclosures: photos, lab results, PID (field) screenings, chloride curve, revegetation form

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

SITE SUPERVISOR Dyllan Yarbrough SIGNATURE 

REPORT ASSEMBLED BY Amy C. Ruth SIGNATURE 

COMPANY RICE OPERATING COMPANY

PROJECT LEADER Zach Conder SIGNATURE 

DATE 4-17-12

\*This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.



# EME C-5 EOL

Unit C, Section 5, T21S, R36E



Excavating the former junction box, facing east  
10.21.11



Collecting a soil sample, facing south  
11.3.11



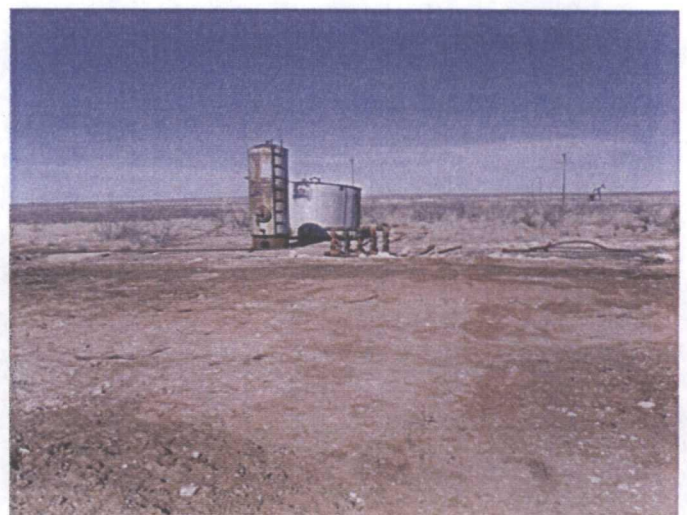
Backfilling excavation, facing north  
12.16.11



Exporting spoil pile, facing south  
12.21.11



Seeding site, facing north  
12.28.11



Site complete, facing north  
12.30.11

December 02, 2011

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

RE: EME C-5 EOL

Enclosed are the results of analyses for samples received by the laboratory on 11/23/11 14:23.

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.

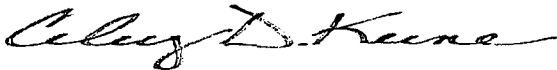
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

COPY

**Analytical Results For:**

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

 Received: 11/23/2011  
 Reported: 12/02/2011  
 Project Name: EME C-5 EOL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 11/23/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 4-WALL COMP (H102549-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	11/28/2011	ND	448	112	400	3.64		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/01/2011	ND	170	85.1	200	1.77		
DRO >C10-C28	50.7	10.0	12/01/2011	ND	176	87.8	200	0.0911		
Surrogate: 1-Chlorooctane		123 %	55.5-154							
Surrogate: 1-Chlorooctadecane		109 %	57.6-158							

**Sample ID: 5 PT. BOTTOM COMP (H102549-02)**

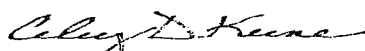
Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	912	16.0	11/29/2011	ND	448	112	400	3.64		
TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/01/2011	ND	170	85.1	200	1.77		
DRO >C10-C28	73.7	10.0	12/01/2011	ND	176	87.8	200	0.0911		
Surrogate: 1-Chlorooctane		113 %	55.5-154							
Surrogate: 1-Chlorooctadecane		99.0 %	57.6-158							

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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

 Received: 11/23/2011  
 Reported: 12/02/2011  
 Project Name: EME C-5 EOL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 11/23/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: BLENDED BACKFILL (H102549-03)**

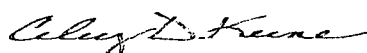
Chloride, SM4500CI-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>256</b>	16.0	11/29/2011	ND	448	112	400	3.64	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/01/2011	ND	170	85.1	200	1.77	
<b>DRO &gt;C10-C28</b>	<b>31.5</b>	10.0	12/01/2011	ND	176	87.8	200	0.0911	
Surrogate: 1-Chlorooctane	124 %	55.5-154							
Surrogate: 1-Chlorooctadecane	105 %	57.6-158							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

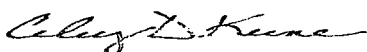
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Rice Operating Company</u>				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>											
Project Manager: <u>Mark Conder Bruce Baker</u>				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>Chlorides</div> <div>TPH 8015 M</div> <div>BTEX</div> <div>Texas TPH</div> <div>Complete Cations/Anions</div> </div>											
Address: <u>122 West Taylor</u>				Company:															
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>				Attn:															
Phone #: <u>575-393-9174</u> Fax #: <u>575-397-1471</u>				Address:															
Project #: _____ Project Owner:				City:															
Project Name:				State: _____ Zip:															
Project Location: <u>EME C-5 EOL</u>				Phone #:				<div style="text-align: center; font-size: 48px; opacity: 0.5;">COPY</div>											
Sampler Name: <u>ROBERT EGANS</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.		Sample I.D.		(GRAB OR COMPOUND)	# CONTAINERS	MATRIX						PRESERV		SAMPLING					
						GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME			
<u>H1025419</u>																			
<u>1</u>		<u>4-Well Composite</u>		<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>		<u>11-23-11</u>					
<u>2</u>		<u>5 ft. Bottom Composite</u>		<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>		<u>11-23-11</u>					
<u>3</u>		<u>Blended Backfill</u>		<u>C</u>	<u>1</u>			<u>✓</u>				<u>✓</u>		<u>11-23-11</u>					
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising hereunder, based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits, incurred by client, its subsidiaries or affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																			
Relinquished By: <u>[Signature]</u>				Date: <u>11/23/11</u>				Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Phone #:			
				Time: <u>8:23</u>								Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Fax #:			
Relinquished By:				Date:				Received By:				REMARKS:							
				Time:								email results							
Delivered By: (Circle One)								Sample Condition				CHECKED BY:				bbaker@riceswd.com; regans@riceswd.com; Lweinheimer@riceswd.com zconder@riceswd.com			
Sampler - UPS - Bus - Other:								Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>				(Initials) <u>[Signature]</u>							

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

#26

# RICE ENVIRONMENTAL CONSULTING & SAFETY

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: PGM 7300	SERIAL NO: 590-001413
MODEL	<input type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-000504
NO.	<input type="checkbox"/>	MODEL: PGM 7320	SERIAL NO: 592-903318
	<input type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO :HAL-248-100-1	EXPIRATION DATE:7-1-2015
METER READING ACCURACY:100	

ACCURACY : +/- 2%

COMPANY
RICE

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	C-5 EOL	C	5	21S	36E

SAMPLE ID	PID	SAMPLE ID	PID
4-WALL	9.7		
SPT. BOTTOM	6.7		
BLENDED BACKFILL	7.4		

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

SIGNATURE:

*Robert Jones*

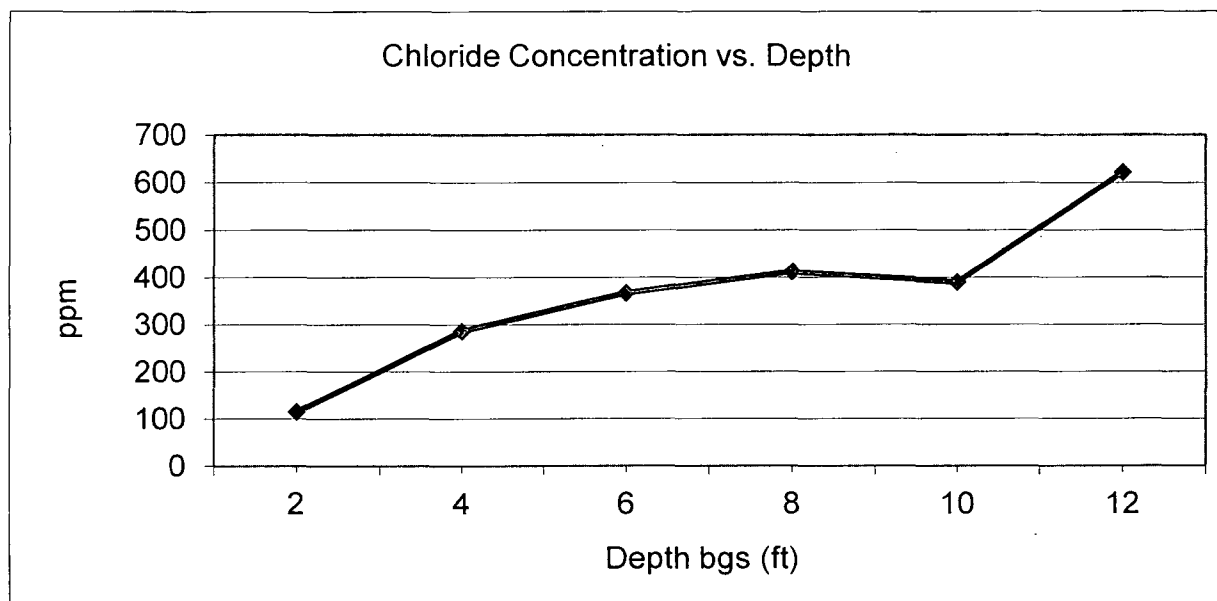
DATE: 11-23-2011

**EME C-5 EOL**

Unit 'C', Sec. 5, T21S, R36E

*Backhoe samples at 15 ft East of the junction (source)*

Depth bgs. (ft)	[Cl <sup>-</sup> ] ppm
2	115
4	286
6	367
8	412
10	390
12	622



Groundwater = 162 ft



PO Box 5630  
Hobbs, NM 88241  
Phone: (575) 393-4411  
Fax: (575) 393-0293

## REVEGETATION FORM

### 1. General Information

Site name: EME C-5 EOL						
U/L C	Section 5	Township T21S	Range R36E	County Lea	Latitude 32° 31.154'	Longitude 103° 17.476'
Contact Name: Hack Conder						
Email: <a href="mailto:hconder@riceswd.com">hconder@riceswd.com</a>						
Site size: 20X15		square feet: 300		Map detail of site attached <input checked="" type="checkbox"/>		
Additional information:						

### 2. Soils

*\*Do not rip caliche subsoils; caliche rocks brought to the surface by ripping shall be removed.*

Salvaged from site <input type="checkbox"/>	Bioremediated <input type="checkbox"/>	Imported <input type="checkbox"/>	Blended <input checked="" type="checkbox"/>	Depth (in):	
Texture: Caliche Mix		Describe soil & subsoil: Fine			
Soil prep methods: Rip <input type="checkbox"/>	Depth(in):	Disc <input type="checkbox"/>	Depth (in):	Rollerpack <input type="checkbox"/>	
Date completed: 12/21/2011					

### 3. Bioremediation

Fertilizer <input type="checkbox"/>	Hay <input type="checkbox"/>	Other <input type="checkbox"/>
Type:		Describe:
Lbs/acre:		

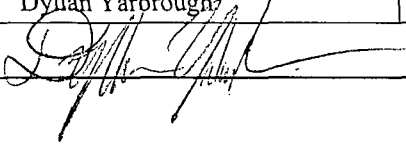
### 4. Seeding

*\*Attach seed bag tags to this form. Seed bag tags shall contain the site name and S-T-R.*

Custom seed mix <input checked="" type="checkbox"/>	Prescribed mix <input type="checkbox"/>	Seed mix name: 2.5 lbs. Blue Grama	Seeding date: 12/28/2011
Broadcast <input checked="" type="checkbox"/>			
Method: Hand broadcast			
Soil conditions during seeding: Dry <input type="checkbox"/> Damp <input type="checkbox"/> Wet <input checked="" type="checkbox"/>			
Photos attached <input type="checkbox"/>	Observations:		
Number of photos:			

### 5. Certification

I hereby certify that the information in this form and attachments is true and complete to the best of my knowledge and belief.

Name: Dyllan Yarbrough	Title: Environmental Tech	Date: 12/28/2011
Signature: 		

COPY