

**1R - 427-405**

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## **REPORTS**

**DATE:**

**3-15-13**

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1R427-405

RECEIVED

APR 25 2012

Information Conversion Division

1000 S. G. Street

EME C-33 EOL

2012

DISCLOSURE

RECEIVED

APR 2 2013

RICE OPERATING COMPANY  
JUNCTION BOX DISCLOSURE\* REPORTOil Conservation Division  
1220 S. St. Francis Drive

BOX LOCATION							BOX DIMENSIONS - FEET		
SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	Length	Width	Depth
Eunice Monument Eumont (EME)	C-33 EOL	C	33	20S	36E	Lea	Eliminated		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Dale Cooper Family Trust OTHER \_\_\_\_\_

Depth to Groundwater 166 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 4/17/2012 Date Completed 5/7/2012 OCD Witness No

Soil Excavated 400.0 cubic yards Excavation Length 30 Width 30 Depth 12 feet  
120Soil Disposed 476 cubic yards Offsite Facility Sundance Services, Inc. Location Eunice, NM  
South Monument Waste Facility Monument, NM

**FINAL ANALYTICAL RESULTS:** Sample Date 4/30/2012, 5/1/2012 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.

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	2.4	<10.0	<10.0	928
BOTTOM COMP.	3.3	<10.0	<10.0	1250
BLENDED BACKFILL		<10.0	<10.0	448

CHLORIDE FIELD TESTS		
LOCATION	DEPTH	mg/kg
background	6"	117
4-WALL Comp	n/a	868
Bottom Comp	12'	1187
Blended Backfill	n/a	630
Vertical delineation trench at 15' South	2'	1353
	4'	854
	6'	775
	8'	1461
	10'	1749
	12'	1655

**General Description of Remedial Action:** This junction box 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 30 x 30 x 12 ft deep excavation. Chloride field tests performed on soil samples did not decrease with depth. Organic vapors were measured using a PID which yielded 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. A total of 596 yards of blended backfill was transported to a NMOCD approved disposal facility. On 5/3/2012, a 20-mil reinforced plastic liner was installed at 12 ft. below ground surface (BGS). The remaining excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. On 8/23/2012, 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 1/30/2013.

**ADDITIONAL EVALUATION IS LOW PRIORITY**

Enclosures: site location map, photos, laboratory analysis, PID (field) screenings, cross-section diagram, chloride graph, revegetation form

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

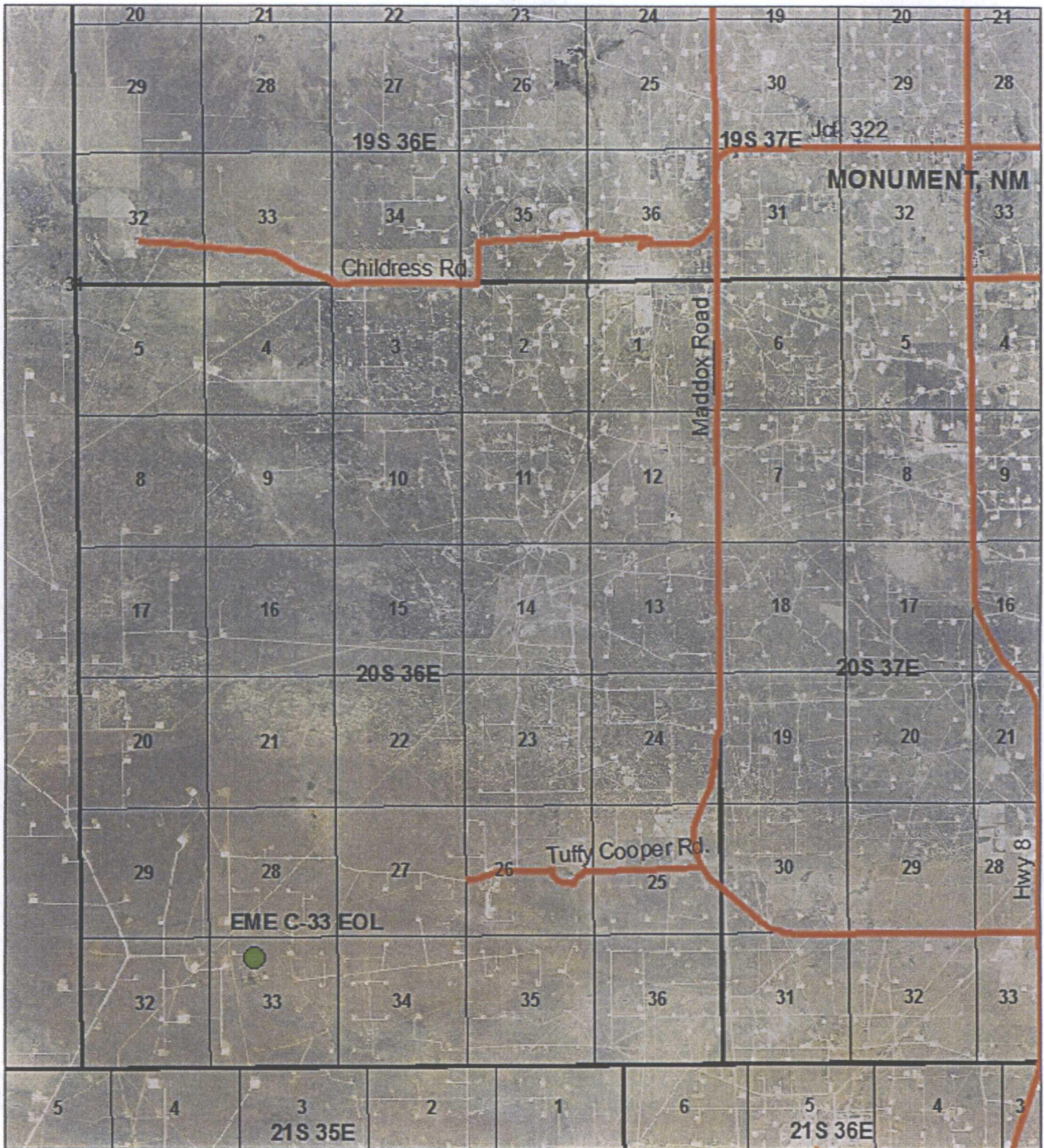
REPORT ASSEMBLED BY Laura Peña SIGNATURE *Laura Peña* COMPANY Rice Operating

SITE SUPERVISOR Dustin Yarbrough SIGNATURE Not Available COMPANY Rice Environmental Consulting &amp; Safety

PROJECT LEADER Zach Conder SIGNATURE *Zach Conder* DATE 3-15-12

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





## EME C-33 EOL

UL/C SECTION 33  
T-20-S R-36-E  
LEA COUNTY, NM



0 1 2  
Miles

Drawing date: 11/7/12  
Drafted by: Tony Grieco



# EME C-33 EOL

UL/C Sec.33 (T20S-R36E)



Site prior, facing south

4/17/2012



Excavating site, facing east

4/23/2012



Collecting sample, facing west

4/30/2012



Final excavation

4/30/2012



Exporting soil, facing east

5/1/2012



Blending spoil pile, facing west

5/1/2012



# EME C-33 EOL

UL/C Sec.33 (T20S-R36E)



Installing liner, facing west

5/3/2012



Importing soil, facing north

5/4/2012



Backfilling site above liner, facing south

5/4/2012



Backfilling site with imported top soil,  
facing east

5/7/2012



Seeding site, facing east

8/23/2012



Site complete, facing south

8/23/2012



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

May 04, 2012

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME C-33 EOL

Enclosed are the results of analyses for samples received by the laboratory on 04/30/12 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, 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  
 ZACH CONDER  
 112 W. Taylor  
 Hobbs NM, 88240  
 Fax To: (575) 397-1471

 Received: 04/30/2012  
 Reported: 05/04/2012  
 Project Name: EME C-33 EOL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/30/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 4 WALL COMPOSITE (H200984-01)**

Chloride, SM4500CI-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>928</b>	16.0	05/02/2012	ND	400	100	400	0.00	
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	05/03/2012	ND	192	96.2	200	1.55	
DRO >C10-C28	<10.0	10.0	05/03/2012	ND	213	106	200	3.82	

Surrogate: 1-Chlorooctane 73.0 % 55.5-154

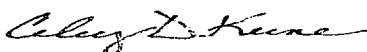
Surrogate: 1-Chlorooctadecane 78.3 % 57.6-158

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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

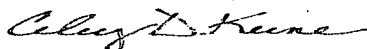
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Celey D. Keene, Lab Director/Quality Manager



# 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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: RICE Operating				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																																	
Project Manager: Zach Conder				P.O. #:				<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH 8015 M</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Texas TPH</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Complete Cations/Anions</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TDS</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">COPY</div> </div>																																	
Address: 112 W. Taylor				Company:																																					
City: Hobbs State: NM Zip: 88240				Attn:																																					
Phone #: Fax #:				Address:																																					
Project #: Project Owner:				City:																																					
Project Name:				State: Zip:																																					
Project Location: EME C-33 EOL				Phone #:																																					
Sampler Name: Dustin Varbrough				Fax #:																																					
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		G/RAB OR (C)OMP.		# CONTAINERS														MATRIX		PRESERV.		SAMPLING																	
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER:		ACID/BASE:		ICE / COOL		OTHER:		DATE		TIME													
H200984		-14 WALL COMPOSITE		B1		1																				4-30-12		3:10													



May 04, 2012

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME C-33 EOL

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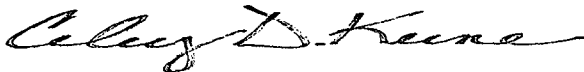
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Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

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Sincerely,



Celey D. Keene

Lab Director/Quality Manager

COPY

**Analytical Results For:**

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

 Received: 04/30/2012  
 Reported: 05/04/2012  
 Project Name: EME C-33 EOL  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 04/30/2012  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 5 PT BTTM COMP (H200985-01)**
**Chloride, SM4500Cl-B**
**mg/kg**
**Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>1250</b>	16.0	05/02/2012	ND	400	100	400	0.00	

**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	05/04/2012	ND	192	96.2	200	1.55	
DRO >C10-C28	<10.0	10.0	05/04/2012	ND	213	106	200	3.82	

Surrogate: 1-Chlorooctane 83.4 % 55.5-154

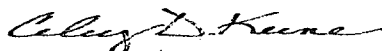
Surrogate: 1-Chlorooctadecane 87.8 % 57.6-158

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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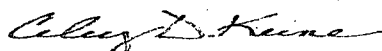
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Celey D. Keene, Lab Director/Quality Manager



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 4 of 4

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Relinquished By: <i>Dwight H. Brough</i> Date: <i>4-30-12</i> Time: <i>4:05</i>		Received By: <i>Jodi Henson</i> Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____ Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Fax #: _____ REMARKS:	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____		email results Zconder@rice-ecs.com; Bbaker@rice-ecs.com; hconder@rice-ecs.com; Lweinheimer@rice-ecs.com; kjones@riceswd.com; <i>dw@yarbrough@rice-ecs.com</i>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: <i>[Signature]</i> (Initials)	

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

#26





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

May 09, 2012

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: EME C-33 EOL

Enclosed are the results of analyses for samples received by the laboratory on 05/01/12 16:45.

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Method EPA 524.2	Total Trihalomethanes (TTHM)
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Sincerely,

Celey D. Keene

Lab Director/Quality Manager

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

**Analytical Results For:**

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

Received: 05/01/2012  
Reported: 05/09/2012  
Project Name: EME C-33 EOL  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 05/01/2012  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: 8 PT. BLENDED SPOIL PILE (H200999-01)**

**Chloride, SM4500Cl-B**

**mg/kg**

**Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>448</b>	16.0	05/02/2012	ND	432	108	400	3.77	

**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	05/07/2012	ND	215	108	200	8.49	
DRO >C10-C28	<10.0	10.0	05/07/2012	ND	194	96.9	200	11.3	

Surrogate: 1-Chlorooctane 98.9 % 55.5-154

Surrogate: 1-Chlorooctadecane 116 % 57.6-158

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Cardinal Laboratories

\*=Accredited Analyte

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*Celestine D. Keene*

Celestine D. Keene, Lab Director/Quality Manager



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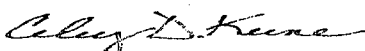
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Q  
O  
U  
Y

Relinquished By: <i>[Signature]</i>		Date: <i>5-1-12</i>	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Time: <i>4:45</i>				Fax Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
		Time:		email results <i>Rush</i> Verbal to Zach Conder	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		<i>[Signature]</i>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>			

#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 type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-000508
MODEL	<input type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-000504
NO.	<input type="checkbox"/>	MODEL: PGM 7320	SERIAL NO: 592-903318
	<input checked="" type="checkbox"/>	MODEL: PGM 7300	SERIAL NO: 590-902072

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

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

ACCURACY : +/- 2%

<b>COMPANY</b>
Rice Operating Company

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
EME	C-33 EOL	C	33	20S	36E

SAMPLE ID	PID	SAMPLE ID	PID
Bottom 5 Pt. Composite	3.3		
4 Wall Composite	2.4		

COPY

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

SIGNATURE: Not Available

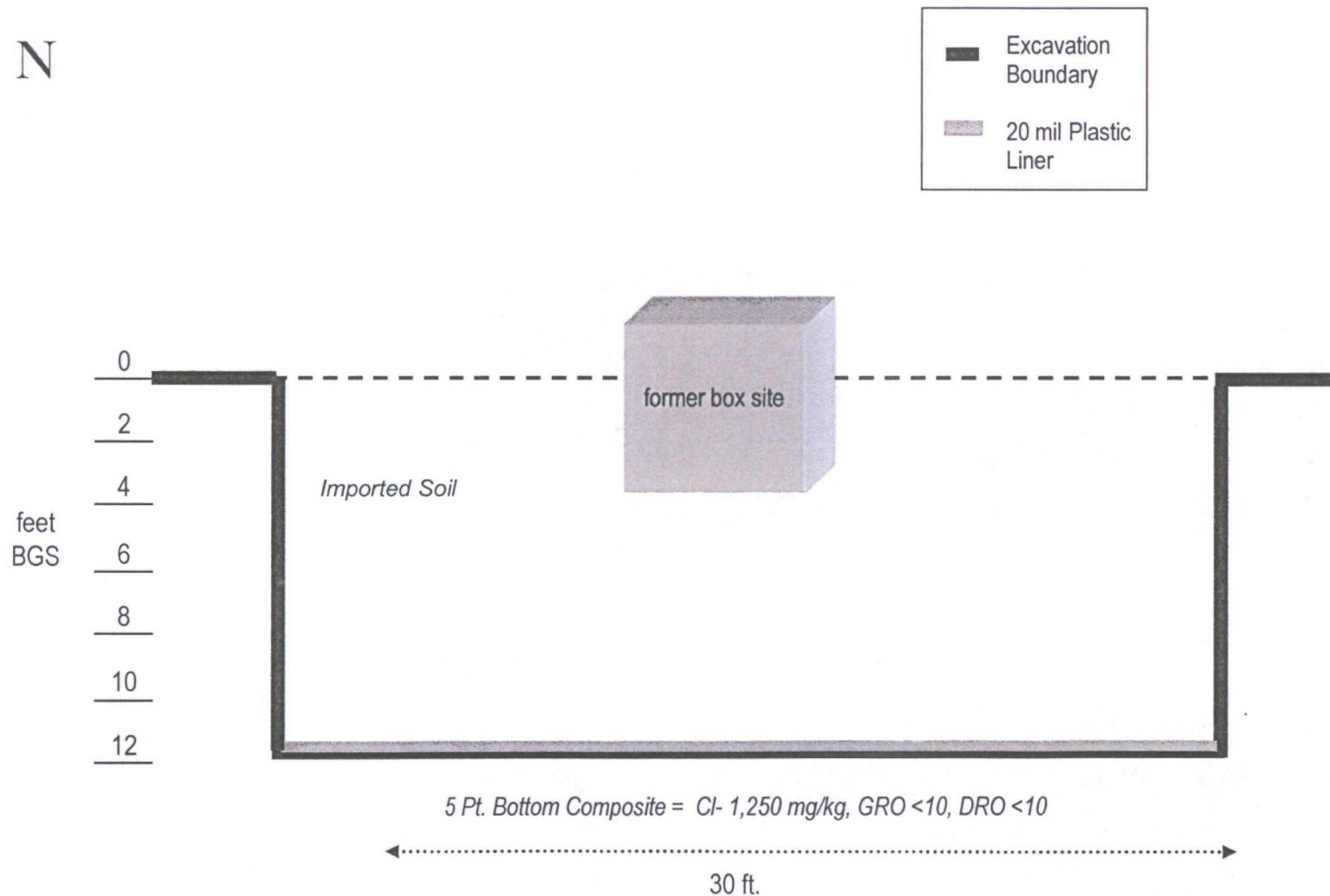
DATE: 4/30/2012

EME C-33 EOL  
Unit 'C', Sec. 33, T20S, R36E

### Excavation Cross-Section

N

S





## CHLORIDE CONCENTRATION CURVE

RICE Operating Company

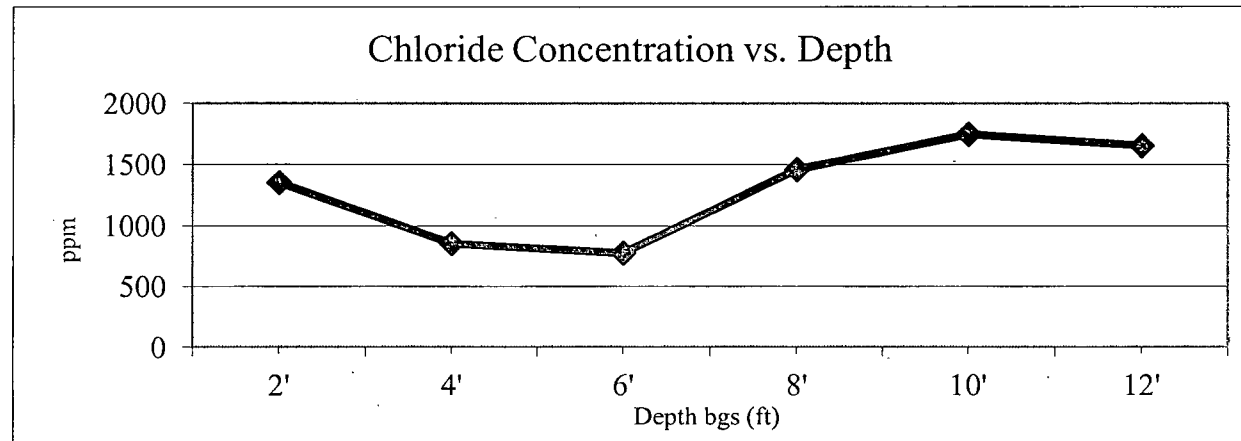
### EME C-33 EOL

Unit 'C', Sec. 33, T20S, R36E

*Backhoe samples at 15' south*

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
2'	1353
4'	854
6'	775
8'	1461
10'	1749
12'	1655

Groundwater = 166 ft





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

## REVEGETATION FORM

### 1. General Information

Site name <b>EME C-33 EOL</b>						
U/L <b>C</b>	Section <b>33</b>	Township <b>20S</b>	Range <b>36E</b>	County <b>Lea</b>	Latitude <b>32°32'2.94" N</b>	Longitude <b>103°21'40.84" W</b>
Contact Name: <b>Zach Conder</b>						
Email: <b>zconder@rice-ecs.com</b>						
Site size: <b>6000</b> square feet			Map detail of site attached <input 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 checked="" type="checkbox"/>	Blended <input type="checkbox"/>	Depth (in):
Texture: <b>Sandy</b>		Describe soil & subsoil: <b>Sandy soils and caliche</b>		
Soil prep methods: Rip <input type="checkbox"/>	Depth(in):	Disc <input type="checkbox"/>	Depth (in):	Rollerpack <input type="checkbox"/>
Date completed: <b>5/7/2012</b>				

### 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: <b>1 lb. Blue Grama and 1 lb. Side Oats</b>	Seeding date: <b>8/23/2012</b>
Broadcast <input checked="" type="checkbox"/>			
Method: Hand broadcast			
Soil conditions during seeding: Dry <input checked="" type="checkbox"/> Damp <input type="checkbox"/> Wet <input type="checkbox"/>			
Photos attached <input type="checkbox"/>	Observations: <b>Grass seed was tilled into the soil</b>		
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: <b>Eduardo Garcia</b>	Title: <b>Environmental Tech</b>	Date: <b>8/23/2012</b>
Signature: 