

1R - 426-283

REPORTS

DATE:

3-22-11

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1R426-283

Jet  
BD I-25 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		
							Length	Width	Depth
Blinebry-Drinkard (BD)	3+ I-25 EOL	I	25	21S	36E	Lea	Eliminated		

LAND TYPE: BLM \_\_\_ STATE \_\_\_ FEE LANDOWNER George W. Brownlee OTHER \_\_\_\_\_

Depth to Groundwater 148 feet NMOC SITE ASSESSMENT RANKING SCORE: 0

Date Started 11/3/2009 Date Completed 5/13/2010 OCD Witness no

Soil Excavated 266.7 cubic yards Excavation Length 30 Width 20 Depth 12 feet

Soil Disposed 126 cubic yards Offsite Facility Sundance Services Location Eunice, NM

FINAL ANALYTICAL RESULTS: Sample Date 12/17/09, 12/23/09, 5/13/2010 Sample Depth 12 ft., 20 ft., 35 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 NMOC guidelines.

Sample Location	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
4-WALL COMP.	0.4	<10.0	<10.0	1,070
BOTTOM COMP.	1.4	<10.0	<10	870
BACKFILL COMP.	0.4	<10.0	<10.0	752
BLENDED BACKFILL WITH IMPORTED SOIL	0.0	N/A	N/A	256
SB # 1 @ 20 ft.	0.6	<10.0	<10.0	1,490
SB # 1 @ 35 ft.	0.4	<10.0	<10.0	144

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-wall comp.	n/a	837
bottom comp.	12'	695
backfill comp.	n/a	638
blended backfill with imported soil	n/a	408
SB #1 at the former junction (source)	15'	649
	20'	1,928
	25'	606
	30'	281
	35'	200

General Description of Remedial Action: This junction and line were eliminated during

the pipeline replacement/upgrade program. After the former box was removed, an investigation

was conducted using a backhoe to collect soil samples at regular intervals creating a 30x20x12-ft. deep excavation. Chloride field test performed on

each sample yielded concentrations that did not relent with depth. Organic vapors were measured using a PID, which yielded low concentrations

The excavated soil was blended on site and representative samples were collected from the blended backfill, the bottom of the excavation, and

excavation walls. The representative samples were taken to a commercial laboratory for analysis of chloride and TPH. The blended backfill

was returned to the excavation to 5 ft. below ground surface (BGS). At 5-4 ft. BGS, a 1-ft. thick clay barrier was installed with compaction

test performed on 12/28/2009. 126 yards of contaminated soil was hauled to an NMOC approved facility. The remaining blended backfill

was blended on site with clean imported soil. A representative sample was collected from the blended backfill with clean imported soil and

sent to a commercial laboratory for analysis of chloride. The remaining excavation was backfilled to ground surface and contoured to the

surrounding area. On 12/29/2009, the site was seeded with a blend of native vegetation and is expected to return to a productive capacity at

a normal rate. To further investigate the depth of chloride presence, a soil bore was initiated on 5/13/2010 at the source of the former junction

box. The soil boring was advanced to 35 ft. BGS with samples collected every 5 ft. between 15-35 ft. Chloride field test on each sample

yielded chloride concentrations that did relent with depth. Organic vapors were measured using a PID, which yielded low concentrations. The

20 ft. and 35 ft. samples were sent to a commercial laboratory for analysis of chloride and TPH. The entire bore hole was plugged with

bentonite to ground surface.

enclosures: photos, boring log, lab results, PID (field) screenings, cross-section, compaction test, chloride curve

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

SITE SUPERVISOR Darnell Mitchell SIGNATURE n/a COMPANY RICE OPERATING COMPANY

REPORT

ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 3-22-11

**BD I-25 EOL**  
Unit I, Section 25, T21S, R36E



Taking samples

12/10/2009



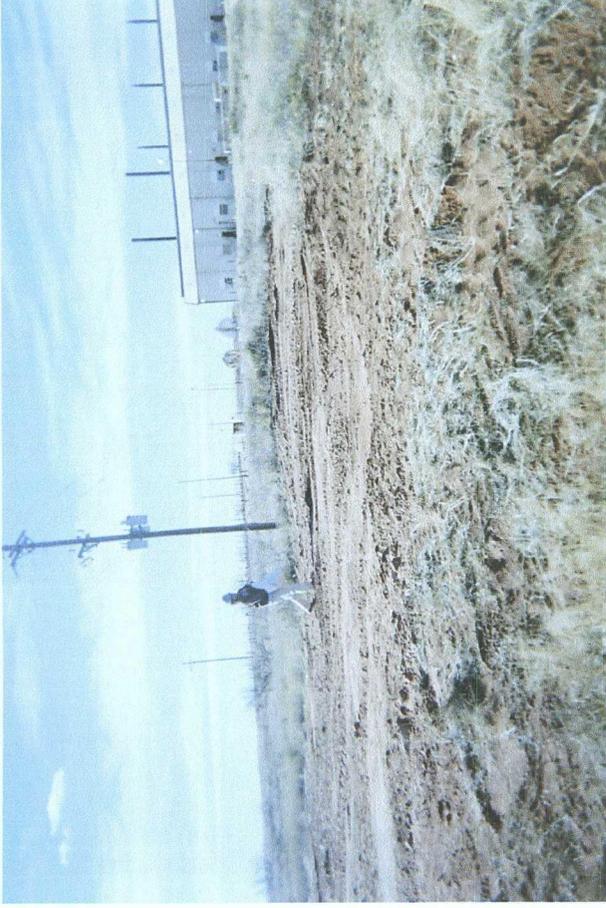
Excavation

12/23/2009



Backfilling Site

12/20/2009



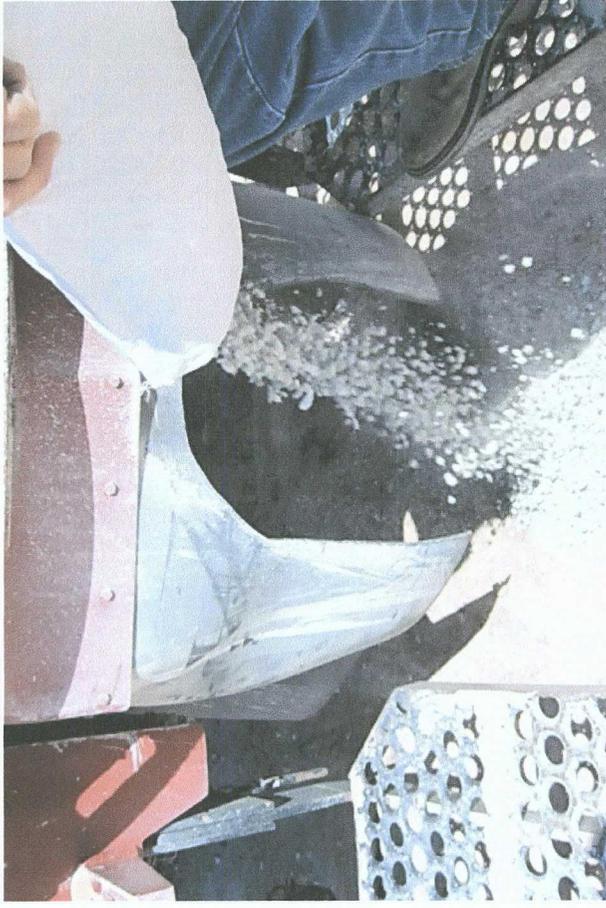
Seeding Site

12/29/2009



Drilling the bore hole

5/13/2010



Plugging the bore hole with Bentonite

5/13/2010

Logger:	Jordan Woodfin
Driller:	Harrison & Cooper
Consultant:	Rice Operating
Drilling Method:	Air Rotary
Start Date:	5/13/2010
End Date:	5/13/2010

SB-1



**Comments:** All samples from cuttings. Located at the source of the former junction box.  
 Drafted by: Jordan Woodfin  
 TD =35 ft Estimated depth to GW = 148 ft

**Project Name:** BD I-25 EOL **Well ID:** SB # 1  
**Location:** UL/I SEC 25 T21S R36S  
**Lat:** N 32° 26' 54.741" **County:** Lea  
**Lon:** W 103° 12' 46.364" **State:** NM

Depth (feet)	chloride field tests	LAB	PID	Description	Lithology	Well Construction
0 ft				0ft-12ft CALICHE AND SAND tan to light brown, (backfill)		
5 ft						
10 ft						
12 ft				12ft-20ft SAND white, light tan		
15 ft	649		0.8			
20 ft	1928	CI-1490	0.6			
		GRO	<10			
		DRO	<10			
25 ft	606		0.5	20ft-35ft SAND red sand		
30 ft	281		0.8			
35 ft	200	CI-144	0.4			
		GRO	<10			
		DRO	<10			

COPY



# ARDINAL LABORATORIES

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

ANALYTICAL RESULTS FOR  
RICE OPERATING COMPANY  
ATTN: HACK CONDER  
112 W. TAYLOR  
HOBBS, NM 88240

Receiving Date: 05/13/10  
Reporting Date: 05/18/10  
Project Number: NOT GIVEN  
Project Name: BD I-25 EOL (21/36)  
Project Location: BD I-25 EOL (21/36)

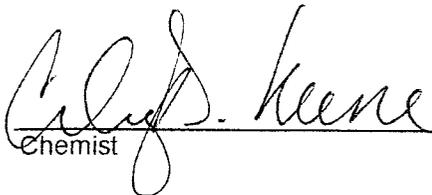
Sampling Date: 05/13/10  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: JH  
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C <sub>6</sub> -C <sub>10</sub> ) (mg/kg)	(>C <sub>10</sub> -C <sub>28</sub> ) (mg/kg)	(mg/kg)
ANALYSIS DATE		05/17/10	05/17/10	05/17/10
H19891-1	SB#1 @ 20FT.	<10.0	<10.0	1,490
H19891-2	SB#1 @ 35FT.	<10.0	<10.0	144
COPY				
Quality Control		505	495	500
True Value QC		500	500	500
% Recovery		101	99.0	100
Relative Percent Difference		2.7	0.2	< 0.1

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

\*Analyses performed on 1:4 w:v aqueous extracts.

Reported on wet weight.

  
Chemist

  
Date

H19891 TCL RICE



# ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 (505) 393-2326 FAX (505) 393-2476

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**Company Name:** Rice Operating Company  
**Project Manager:** Hack Conder  
**Address:** 122 West Taylor  
**City:** Hobbs **State:** NM **Zip:** 88240  
**Phone #:** 393-9174 **Fax #:** 397-1471  
**Project #:** **Project Owner:**  
**Project Name:** BD 1-25 EOL 21/30  
**Project Location:** BD 1-25 EOL Z1/50  
**Sampler Name:** Jordan Woodfin

Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX			PRESERV	SAMPLING	DATE	TIME	ANALYSIS REQUEST									
			GROUNDWATER	WASTEWATER	SOIL					Chlorides	TPH 8015 M	BTEX	Texas TPH	Complete Cations/Anions					
H1391-1	SB #1 @ 20ft	1	✓		✓	✓	5/13/10	02:40	✓										
2	SB #1 @ 35ft	1	✓		✓	✓	5/13/10	02:51	✓										

FOR LAB USE ONLY

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether raised 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, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

**Relinquished By:** Jordan Woodfin **Date:** 5/13/10 **Time:** 4:50  
**Received By:** [Signature] **Date:** 5/13/10 **Time:** 4:50  
**Delivered By:** (Circle One) **Checked By:** [Signature]  
**Sampler - UPS - Bus - Other:** **Sample Condition:** Cool/Intact Yes  No  Yes  No   
**Phone Result:**  Yes  No **Phone Result:**  Yes  No  
**Fax Result:**  Yes  No **Fax Result:**  Yes  No  
**REMARKS:** email results  
 Hconder@riceswd.com; Kjones@riceswd.com;  
 Jwoodfin@riceswd.com

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 #26

NEED SAMPLES BACK, PLEASE

# RICE OPERATING COMPANY

122 West Taylor Hobbs, NM 88240  
 PHONE: (575) 393-9174 FAX: (575) 397-1471  
 PID METER CALIBRATION & FIELD REPORT FORM

Check Model Number:

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>

Model: PGM 7300 Serial No: 590-000183  
 Model: PGM 7300 Serial No: 590-000508  
 Model: PGM 7300 Serial No: 590-000504

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Model: PGM 7600 Serial No: 110-023920  
 Model: PGM 7600 Serial No: 110-013744  
 Model: PGM 7600 Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 927041	EXPIRATION DATE: 11-16-12
FILL DATE: 11-17-09	METER READING ACCURACY: 100

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	I-25 EOL	I	25	21	30

SAMPLE ID	PID	SAMPLE ID	PID
SB # 1			
15'	0.8		
20'	0.6		
25'	0.5		
30'	0.8		
35'	0.4		

COPY

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

SIGNATURE: 

DATE: 5-13-10



ANALYTICAL RESULTS FOR  
 RICE OPERATING COMPANY  
 ATTN: BRUCE BAKER  
 122 W. TAYLOR  
 HOBBS, NM 88240

Receiving Date: 12/17/09  
 Reporting Date: 12/18/09  
 Project Number: NOT GIVEN  
 Project Name: NOT GIVEN  
 Project Location: B.D. I-25 EOL

Sampling Date: 12/17/09  
 Sample Type: SOIL  
 Sample Condition: COOL & INTACT  
 Sample Received By: NF  
 Analyzed By: AB/HM

	GRO	DRO	
	(C <sub>6</sub> -C <sub>10</sub> )	(>C <sub>10</sub> -C <sub>28</sub> )	CI*
LAB NUMBER SAMPLE ID	(mg/kg)	(mg/kg)	(mg/kg)

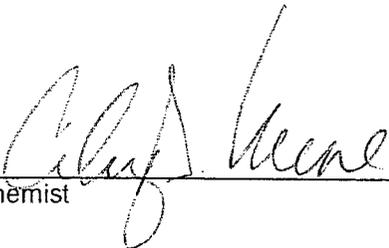
ANALYSIS DATE	12/18/09	12/18/09	12/18/09
H18902-1 5PT. BOTTOM @ 12'	<10.0	<10.0	870
H18902-2 4 WALL COMP. @ 25x30	<10.0	<10.0	1,070
H18902-3 BLAND BACKFILL 8PT. COMP.	<10.0	<10.0	752
Quality Control	497	496	500
True Value QC	500	500	500
% Recovery	99.4	99.2	100
Relative Percent Difference	1.0	3.9	< 0.1

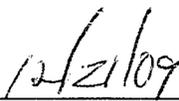
METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CIB

\*Analysis performed on a 1:4 w:v aqueous extract.

Reported on wet weight.

COPY

  
 \_\_\_\_\_  
 Chemist

  
 \_\_\_\_\_  
 Date

H18902 TCL RICE

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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, 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. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.









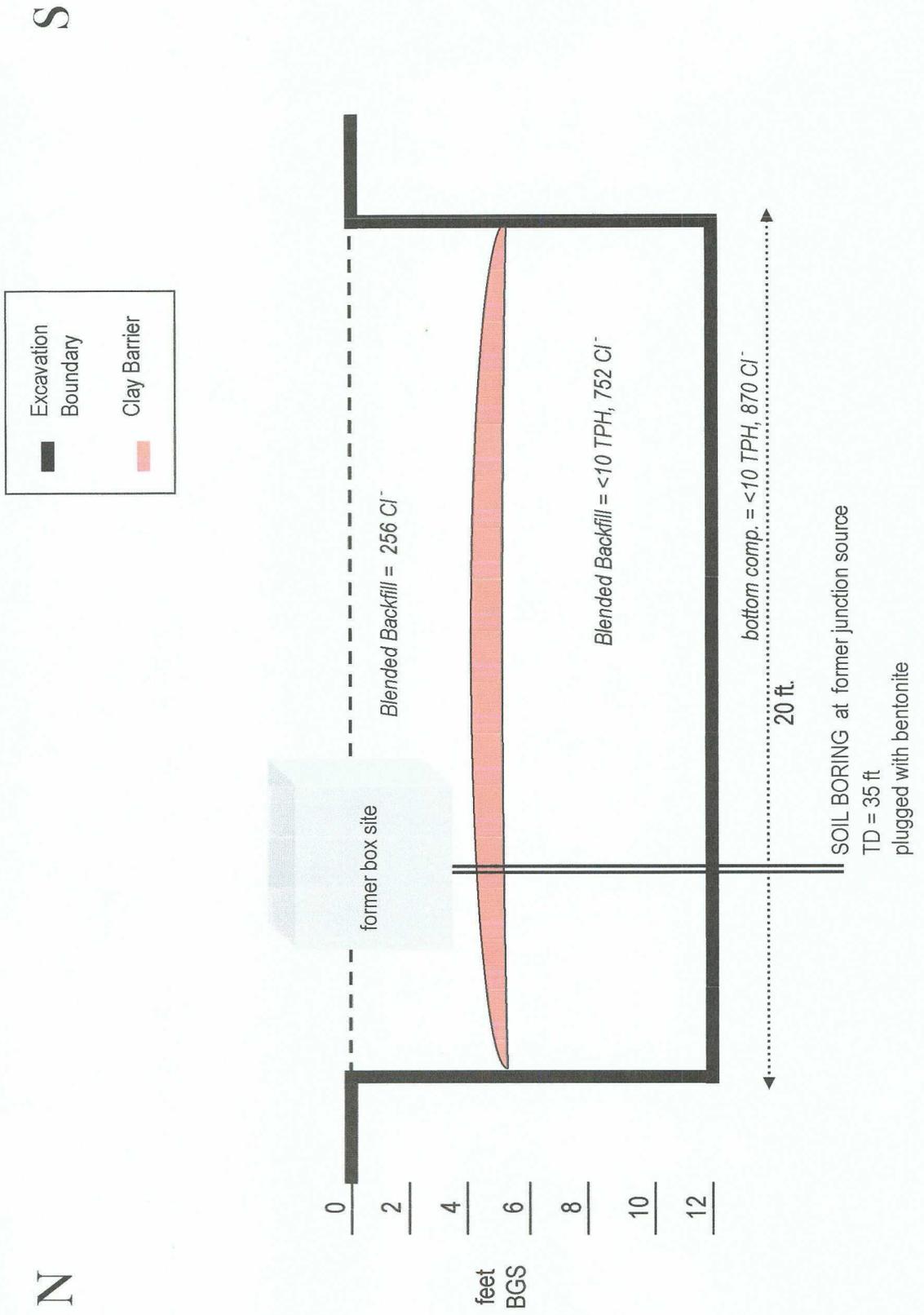
**ARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (575) 393-2326 Fax (575) 393-2476

BILL TO		ANALYSIS REQUEST	
Company Name: <b>RICE OPERATIONS</b>	P.O. #:		
Project Manager: <b>BRUCE BAKER</b>	Company: <b>SAME</b>		
Address: <b>122 W TAYLOR</b>	Attn:		
City: <b>HOBBS</b>	Address:		
State: <b>NM</b>	City:		
Zip: <b>88241</b>	State:		
Phone #: <b>575 391-7468</b>	Phone #:		
Fax #: <b>575 397-1971</b>	Fax #:		
Project Owner:			
Project Name: <b>BLENDING BACKFILL WITH IMPACTED SOE1</b>			
Project Location: <b>B.D. JCT. I 25 EOL</b>			
Sampler Name: <b>Danielle Mitchell</b>			
FOR LAB USE ONLY			
Lab I.D. <b>Sample I.D.</b>	MATRIX	PRESERV.	SAMPLING
	WASTEWATER	ACID/BASE	DATE
	GROUNDWATER	ICE / COOL	TIME
	SLUDGE	OTHER	
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BD I-25 EOL  
Unit 'I', Sec. 25, T21S, R36E

### Excavation Cross-Section





LABORATORY TEST REPORT  
**PETTIGREW & ASSOCIATES, P.A.**

1110 N. GRIMES  
HOBBS, NM 88240  
(575) 393-9827



DEBRA P. HICKS, P.E./L.S.I.  
WILLIAM M. HICKS, III, P.E./P.S.

**To:** Rice Operating Company  
122 W. Taylor  
Hobbs, NM 88240

**Material:** Wallach Red Clay

**Project:** BD Junction J125  
Project No. 2009.1260

**Test Method:** ASTM: D 2922

**Date of Test:** December 28, 2009

**Depth:** See Below

**Depth of Probe:** 6"

Test No.	Location	*Dry Density		Depth
		% Max	% Moisture	
SG 7.	BDJ - 125 - 10' N. & 6' E. of SW Corner of Pad	92.8	15.3	5' Below FG

COPY

**Control Density:** 100.7  
ASTM: D 698

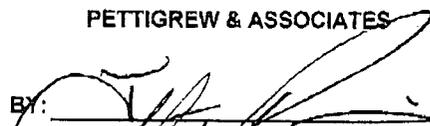
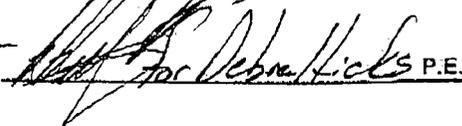
**Optimum Moisture:** 20.7%

**Required Compaction:** 91%

**Densometer ID:** 5572  
PETTIGREW & ASSOCIATES

**Lab No.:** 09 8375-8376

**Copies To:** Rice Operating

BY:   
BY:  P.E.

CHLORIDE CONCENTRATION CURVE

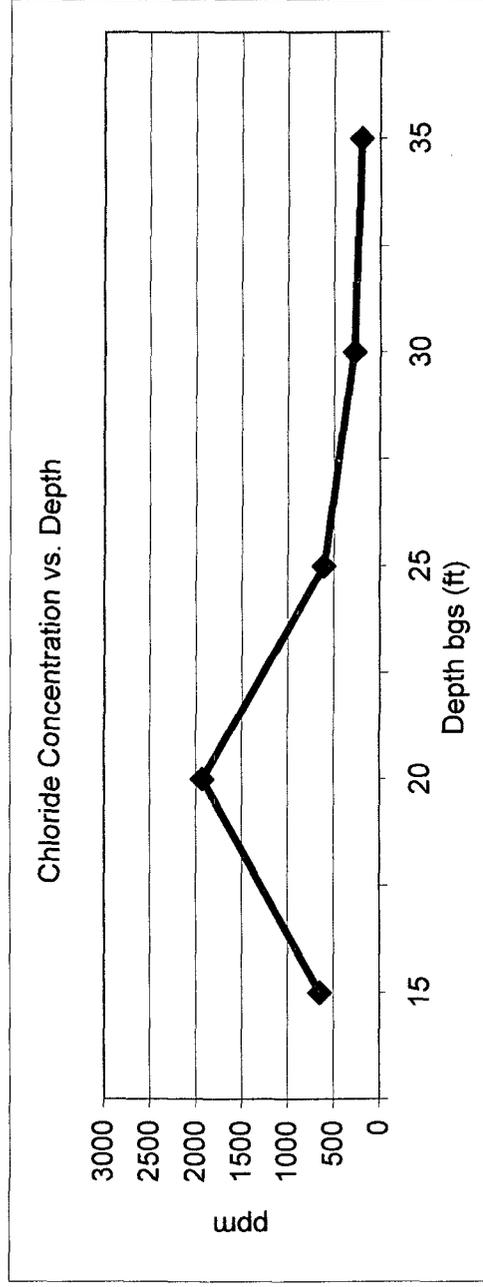
RICE Operating Company

**BD I-25 EOL**

Unit 'I', Sec. 25, T21S, R36E

Soil bore at former junction box (source)

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
15	649
20	1928
25	606
30	281
35	200



Groundwater = 148 ft.