

1R - 426-299

# REPORTS

DATE:

3-22-12

1R426-299

BD Jct. A-2  
2011

RECEIVED

MAY - 1 2012

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

DISCLOSURE

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

**BOX LOCATION**

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
Bliebry-Drinkard (BD)	Jct. A-2	A	2	23S	37E	Lea	Length	Width	Depth
							Moved 55' South		

LAND TYPE: BLM \_\_\_\_\_ STATE \_\_\_\_\_ FEE LANDOWNER Walco Ranch, LLC. OTHER \_\_\_\_\_

Depth to Groundwater 57 feet NMOCD SITE ASSESSMENT RANKING SCORE: 40\*

Date Started 6/18/2011 Date Completed 7/20/2011 OCD Witness No

Soil Excavated 44.4 cubic yards Excavation Length 10 Width 10 Depth 12 feet

Soil Disposed 84 cubic yards Offsite Facility Sundance Services, Inc. Location Eunice, NM

**FINAL ANALYTICAL RESULTS:** Sample Date 7/19/2011 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
4-WALL COMP.	0.5	<10.0	<10.0	1,760
BOTTOM COMP.	0.8	<10.0	<10.0	1,300
IMPORTED SOIL	50.8			<16.0

LOCATION	DEPTH	mg/kg
4-wall comp.	N/A	704
bottom comp.	12'	777
imported soil	N/A	115
background	6"	122
vertical delineation trench at 5' north of source	2'	546
	4'	1,863
	6'	745
	8'	1,006
	10'	966
	12'	954

**General Description of Remedial Action:** An investigation was conducted using a

backhoe to collect soil samples at regular intervals producing a 10x10x12-ft excavation.

Chloride field tests performed on each sample yielded elevated concentrations that did not

relent with depth. Organic vapors were measured using a PID which yielded low

concentrations. Representative composite samples of the excavation bottom and excavator

walls were sent to a commercial laboratory for analysis of chloride and TPH. 84 cubic yards of

excavated soil was hauled to a NMOCD approved facility. A representative sample of the clean

imported soil was sent to a commercial laboratory for analysis of chloride and TPH. The excavation was backfilled with the imported soil to

4-ft BGS. On 7/19/2011, a 20-mil reinforced liner was installed at 4-ft BGS and the excavation was backfilled with the remaining imported soil to

ground surface and contoured to the surrounding area. On 7/20/2011, the site was seeded with a blend of native vegetation and is expected

to return to a productive capacity at a normal rate. A new water tight junction box was built 55-ft. south. NMOCD was notified of potential

groundwater impact on 12/22/2011.

\*Wind Mill 650-ft. south

**ADDITIONAL EVALUATION IS HIGH PRIORITY**

enclosures: photos, lab results, PID (field) screenings, cross-section, 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 Robert Egans SIGNATURE *Robert Egans*

REPORT ASSEMBLED BY Laura Peña SIGNATURE *Laura Peña* COMPANY RICE OPERATING COMPANY

PROJECT LEADER Zach Conder SIGNATURE *Zach Conder* DATE 3-22-12

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



# BD Jct. A-2

Unit A, Section 2, T23S, R37E



Digging source, facing east

6.18.11



Collecting sample, facing south

7.19.11



Importing backfill soil, facing north

7.19.11



Installing liner, facing northwest

7.19.11



Backfilling site above liner, facing west

7.19.11



Seeding site, facing west

7.20.11

July 25, 2011

ZACH CONDER

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JCT A-2 (23/37)

Enclosed are the results of analyses for samples received by the laboratory on 07/19/11 16:23.

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.

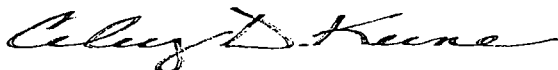
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

 Received: 07/19/2011  
 Reported: 07/25/2011  
 Project Name: BD JCT A-2 (23/37)  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 07/19/2011  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: 4 WALL COMPOSITE (H101501-01)**

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>1760</b>	16.0	07/20/2011	ND	448	112	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	07/22/2011	ND	172	86.1	200	3.47		
DRO >C10-C28	<10.0	10.0	07/22/2011	ND	163	81.4	200	0.343		
<hr/>										
Surrogate: 1-Chlorooctane	104 %	70-130								
Surrogate: 1-Chlorooctadecane	112 %	70-130								

**Sample ID: 5 PT. BTM COMP (H101501-02)**

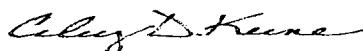
Chloride, SM4500CI-B			mg/kg							
			Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>1300</b>	16.0	07/20/2011	ND	448	112	400	0.00		
TPH 8015M			mg/kg							
			Analyzed By: ab							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	07/22/2011	ND	172	86.1	200	3.47		
DRO >C10-C28	<10.0	10.0	07/22/2011	ND	163	81.4	200	0.343		
<hr/>										
Surrogate: 1-Chlorooctane	106 %	70-130								
Surrogate: 1-Chlorooctadecane	116 %	70-130								

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Cardinal Laboratories

\*=Accredited Analyte

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 the 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.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received: 07/19/2011  
Reported: 07/25/2011  
Project Name: BD JCT A-2 (23/37)  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 07/19/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: IMPORTED SOIL (H101501-03)**

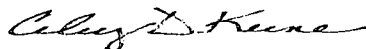
Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/20/2011	ND	448	112	400	0.00	

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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

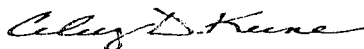
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



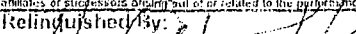

# Laboratories

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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

PLEASE NOTE: Liability and Damages. Cardinal's liability and the exclusive remedy for any claim arising whether 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 90 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 its respective parent or of 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.

Relinquished By: 		Date: 1/19/11	Received By: Jodi Benson	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Time: 1:23				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:		Date:	Received By:	REMARKS:	
Time:					
Delivered By: (Circle One) Sampler - UPS - Bus - Other:			Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: 	

# RICE ENVIRONMENTAL CONSULTING AND SAFETY

122 West Taylor Hobbs, NM 88240

PHONE: (505) 393-9174 FAX: (505) 397-1471

# PID METER CALIBRATION & FIELD REPORT FORM

CK.  
MODEL  
NO.

X

MODEL: PGM 7300

SERIAL NO: 590-001413

MODEL: PGM 7300

SERIAL NO: 590-000508

MODEL: PGM 7320

SERIAL NO: 592-903318

MODEL: PGM 7300

SERIAL NO: 590-000183

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO : 930737	EXPIRATION DATE: 6-16-2013
METER READING ACCURACY: 100 ppm	

ACCURACY : +/- 2%

[illegible]

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

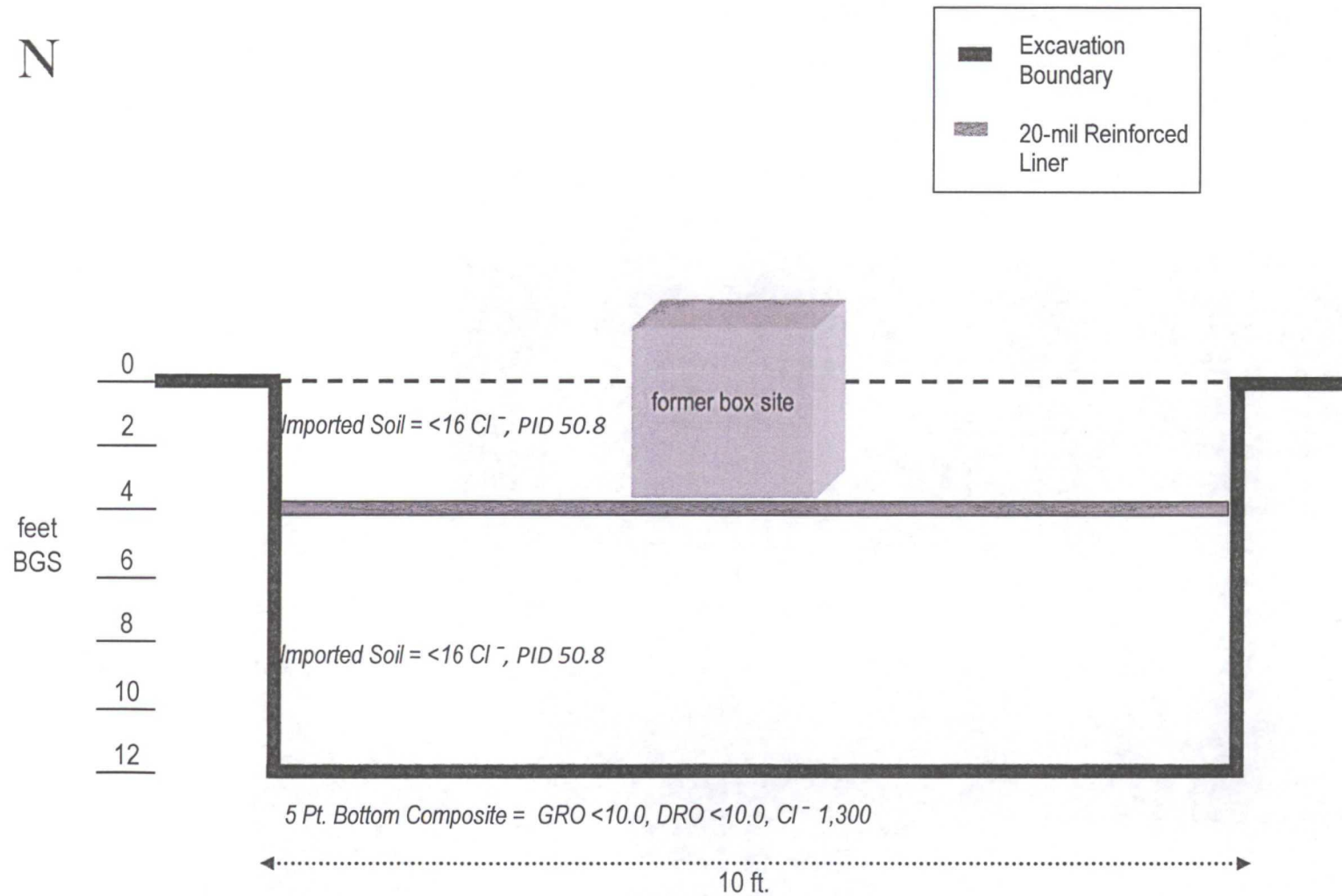
SIGNATURE: <i>Nalot Evans</i>	DATE: 7-19-2011
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BD Jct. A-2  
Unit 'A', Sec. 2, T23S, R37E

### Excavation Cross-Section

N

S



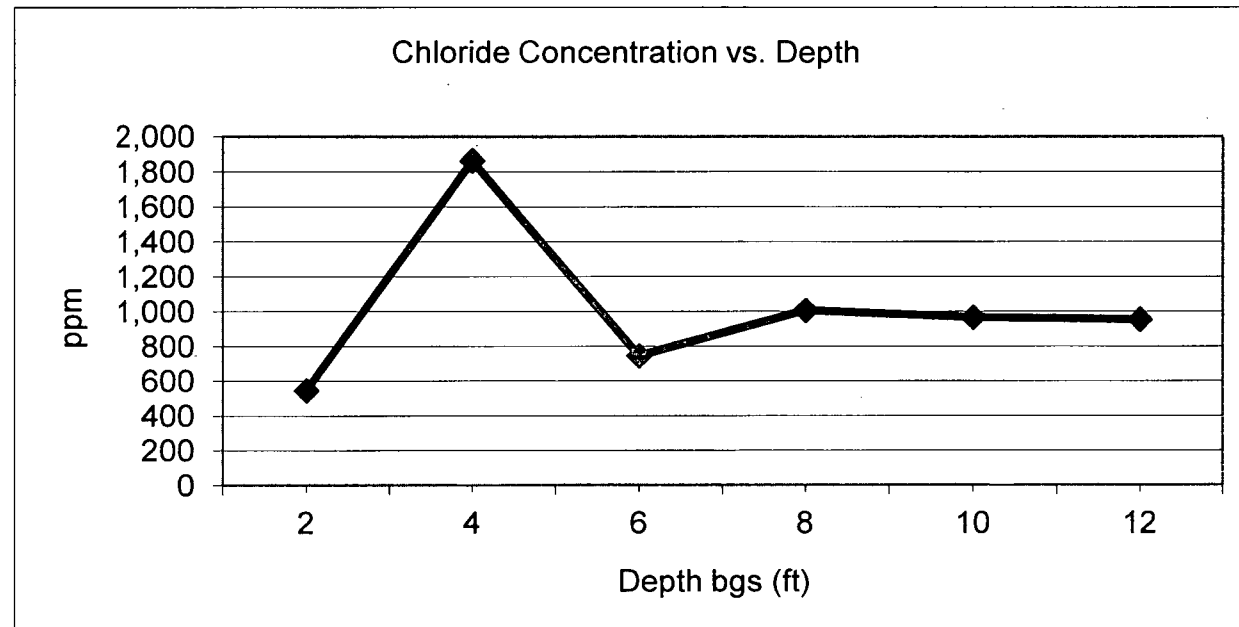
**BD Jct. A-2**

Unit 'A', Sec. 2, T23S, R37E

*Backhoe samples at 5 ft North of the junction (source)*

Depth bgs (ft)	[Cl <sup>-</sup> ] ppm
2	546
4	1,863
6	745
8	1,006
10	966
12	954

Groundwater = 57 ft





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

## REVEGETATION FORM

### 1. General Information

Site name: BD		Jct. A-2				
U/L A	Section 2	Township T23S	Range R37E	County Lea	Latitude 32° 20' 263"	Longitude 103° 7' 530"
Contact Name: Zach Conder						
Email: zconder@rice-ecs.com						
Site size: 1200		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:		Describe soil & subsoil:			
Soil prep methods:	Rip <input type="checkbox"/>	Depth(in):	Disc <input type="checkbox"/>	Depth (in):	Rollerpack <input type="checkbox"/>
Date completed: 7/20/2011					

### 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: 5 lbs. blue grama	Seeding date: 7/20/2011
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:		
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: Robert Egans	Title: Environmental Tech	Date: 7/20/2011
Signature: <i>Robert Egans</i>		

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