

1R - 426-109

REPORTS

DATE:

4/15/2005

BD Jct F-25-2

19/74

180426-109

DISCLOSURE REPORT

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

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
BD	F-25-2	F	25	21S	37E	Lea	Length	Width	Depth
							no box-junction eliminated		

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Mark Owen Estate OTHER _____

Depth to Groundwater 37 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20

Date Started 5/24/2004 Date Completed 6/4/2004 NMOCD Witness no

Soil Excavated 89 cubic yards Excavation Length 20 Width 20 Depth 6 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 5/25/2004 Sample Depth 6 ft

Procure 5-point composite sample of bottom and 4-point composite sample of excavation 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 ppm	GRO mg/kg	DRO mg/kg	Chloride mg/kg
4-WALL COMP.	0.1	<10.0	<10.0	1360
BOTTOM COMP.	0.2	<10.0	23.6	7400
REMED. BACKFILL	0.1	<10.0	34.1	1260

General Description of Remedial Action: This junction was eliminated with the pipeline replacement program. The box lumber was removed and the site was delineated using a backhoe while PID screenings and chloride field tests were delineated to 12 ft BGS in some areas. Chloride concentrations did not decline with depth or breadth. The excavation was 20 x 20 x 6 ft deep and composite samples were collected at the bottom, 4 walls, and the backfill. TPH concentrations met NMOCD guidelines. All PID concentrations were very low with the highest reading at 0.2 ppm. A 1-ft-deep compacted clay barrier was installed at the bottom of the excavation at 6 ft BGS to inhibit further downward migration of remaining chloride. The remaining spoils were blended on site and backfilled up to the surface. An identification plate has been placed on the surface of this site to mark the presence of the clay barrier below and the location of the former junction box for future environmental considerations. NMOCD has been notified of potential groundwater impact at this site.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: chloride graph, photos, lab results, PID field screenings, clay test, cross-section, plan-view

LOCATION	DEPTH (ft)	ppm
vertical at junction box	8	1256
	9	1759
	10	1366
	11	2973
	12	4924
10 ft NORTH of junction	8	6179
	9	6826
	10	7241
	11	6826
	12	6044
10 ft SOUTH of junction	8	6567
	9	5750
	10	5678
	11	5530
	12	4911
10 ft WEST of junction	8	7729
	9	6215
	10	5926
	11	5681
	12	5102
4-wall comp.	n/a	1453
bottom comp.	6	6165
remed. comp.	n/a	1084

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

SITE SUPERVISOR Joe Gatts SIGNATURE not available COMPANY RICE Operating Company

REPORT ASSEMBLED BY Kristin Farris Pope SIGNATURE Kristin Farris Pope

DATE 4/15/2005 TITLE Project Scientist

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



junction box during pipeline replacement 7/22/2003

BD jct. F-25-2

unit 'F', Sec. 25, T21S, R37E



20 x 20 x 6-ft-deep excavation

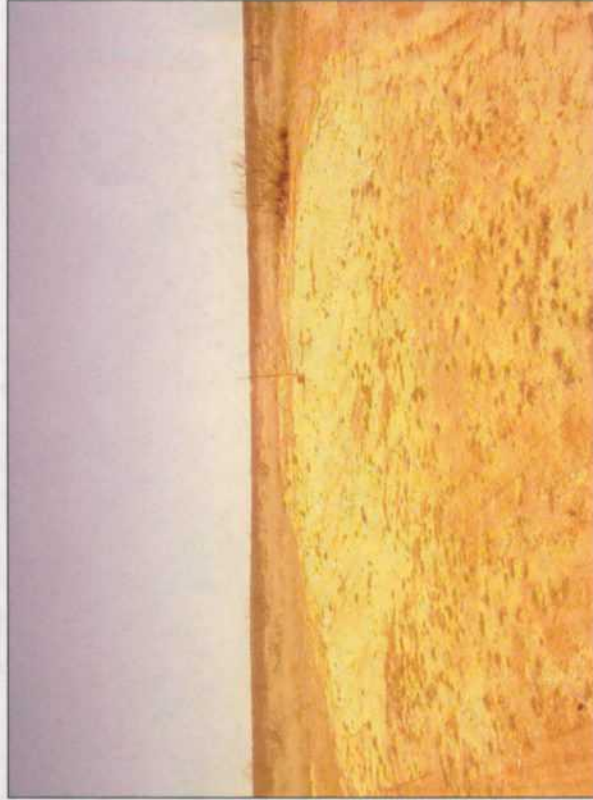
May 2004



excavation with compacted clay at 6 ft BGS 5/28/2004



testing compacted clay 5/28/2004



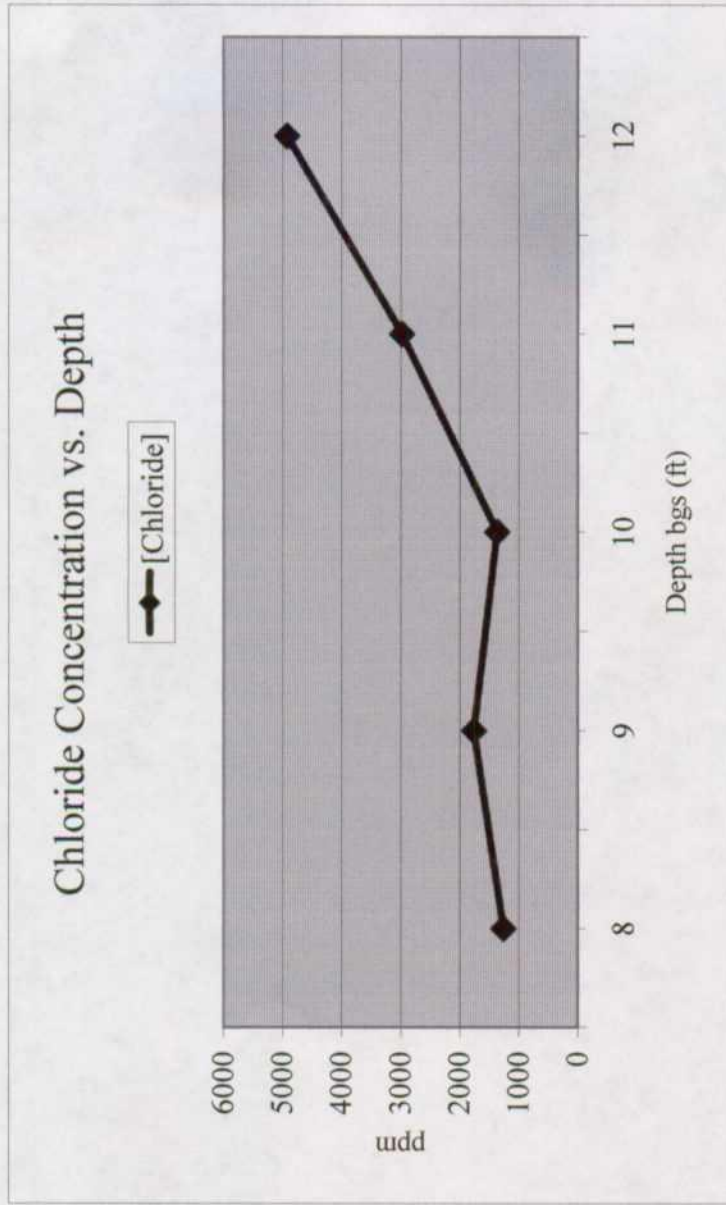
backfilled site with identification plate on surface 3/18/2005

BD jct. F-25-2 unit 'F', sec. 25, T21S, R37E

Vertical Delineation at Source

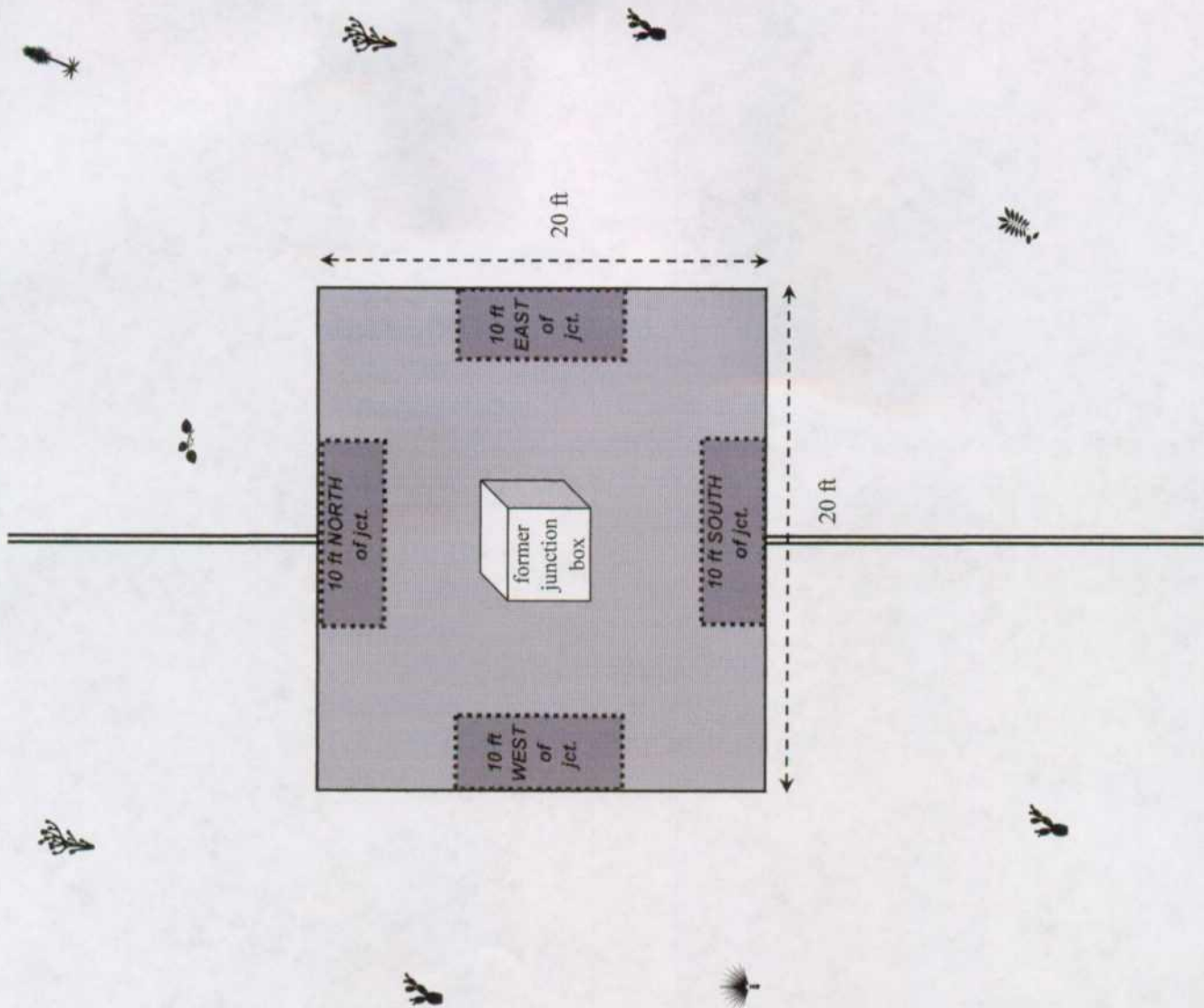
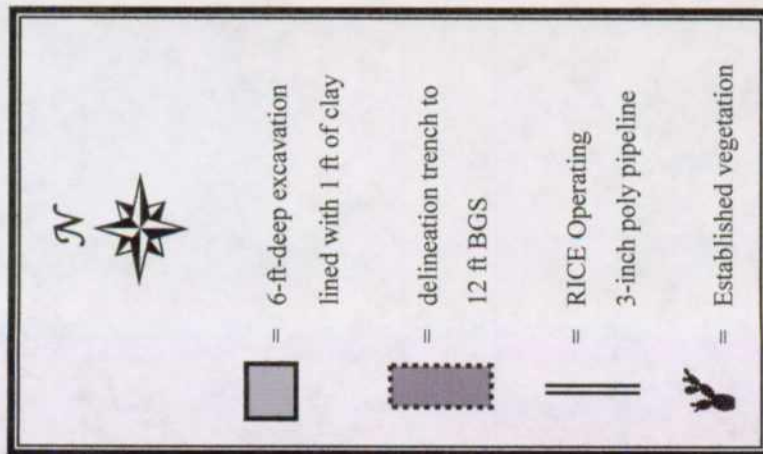
Depth bgs (ft)	[Cl ⁻] ppm
8	1256
9	1759
10	1366
11	2973
12	4924

Groundwater = 37 ft



BD jct. F-25-2

20 x 20 x 6 ft Excavation



BD jct. F-25-2

20 x 20 x 6 ft

Excavation Cross-Section

S

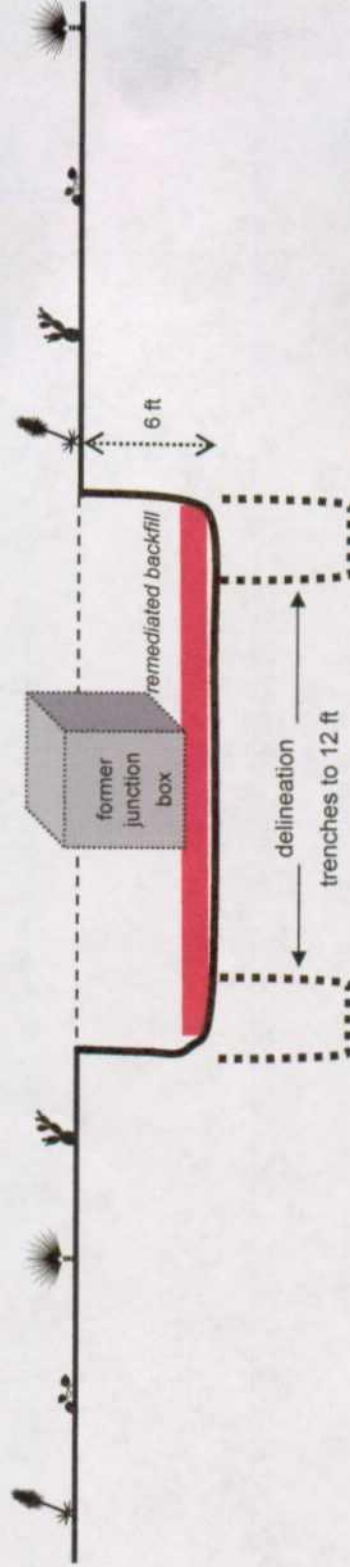
N

20 ft

surface

0
2
4
6
8
10
12

ft BGS



Excavation
Boundary

1 ft compacted
clay barrier

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.



CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 673-7020 (505) 393-2328 Fax (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

BILL TO										ANALYSIS REQUEST									
Company Name: <u>Cardinal Laboratories, Inc.</u>										P.O. #:									
Project Manager: <u>T. C. H. H.</u>										Company:									
Address: <u>122 W. Tenth</u>										Attn:									
City: <u>Abilene</u>										Address:									
State: <u>NM</u>										City:									
Zip: <u>79601</u>										State:									
Phone #: <u>777-1176</u>										Phone #:									
Fax #: <u>777-1176</u>										Fax #:									
Project #: <u>777-1176</u>										Project Owner:									
Project Name: <u>F-24-2</u>										Zip:									
Project Location: <u>13 D</u>										Phone #:									
Sampler Name: <u>J. H. H.</u>										Fax #:									
FOR LAB USE ONLY																			
Lab I.D.										Sample I.D.									
1. 12/20/01										1. 12/20/01									
2. 12/20/01										2. 12/20/01									
3. 12/20/01										3. 12/20/01									
4. 12/20/01										4. 12/20/01									
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Sampler Relinquished: Cardinal Laboratories, Inc. Date: 12/20/01 Time: 1:40

Received By: Cardinal Laboratories, Inc. Date: 12/20/01 Time: 1:40

Relinquished By: Cardinal Laboratories, Inc. Date: 12/20/01 Time: 1:40

Delivered By: Cardinal Laboratories, Inc. Date: 12/20/01 Time: 1:40

Sampler - UPS - Bus - Other: Cardinal Laboratories, Inc.

Phone Result: Yes ☐ No ☐ Fax Result: Yes ☐ No ☐

REMARKS: Cardinal Laboratories, Inc.

RICE OPERATING COMPANY
122 WEST TAYLOR
HOBBS, NEW MEXICO 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471
VOC FIELD TEST REPORT FORM
MINI RAE PLUS CLASSIC PHOTOIONIZATION GAS DETECTOR

MODEL NO: PGM 761S
CALIBRATION GAS
GAS COMPOSITION: ISOBUTYLENE
AIR
LOT NO: 02-22-30
EXP. DATE: 11/20/04
METER READING
ACCURACY: 100.1

SERIAL NO: 104412

100 PPM
BALANCE
FILL DATE: 5/20/03
ACCURACY: + or - 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE
13D	F-25-2	F	25	21	37

SAMPLE	PID RESULT	SAMPLE	PID RESULT
10' North Wall	0.1		
10' South Wall	0.1		
10' East Wall	0.2		
10' West Wall	0.2		
4 WALL Comp	0.1		
Bott. Comp 6' hsr	0.2		
REMPD BACKFILL	0.1		

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

J. Gatt
Signature

5/25/04
Date

All composite samples.



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827



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

To: Rice Operating
Attn: Carolyn Haynes
122 W. Taylor
Hobbs, NM 88240

Material: Red Clay

Test Method: ASTM: D 2922

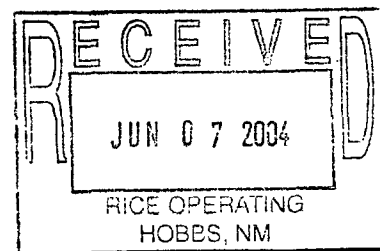
Project: F 25-2

Date of Test: May 28, 2004

COPY

Depth: Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG-1	Center of Pit	96.7	21.0	



Asrafkary 783 9613

Control Density: 109.5
ASTM: D 698

Optimum Moisture: 16.6%

Required Compaction: 95%

Lab No.: 04 6393-6594

Copies To: Rice

PETTIGREW & ASSOCIATES

BY: *[Signature]* SET