

1R - 426-217

REPORTS

DATE:

1-21-09

BD Vent J-30

1R426-217

RECEIVED

MAR 25 2004

Environment and Heritage
Oil Conservation Division

Disclosure

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

BOX LOCATION

| SWD SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX DIMENSIONS - FEET | | |
|------------------------|-----------|------|---------|----------|-------|--------|-----------------------|-------|-------|
| | | | | | | | Length | Width | Depth |
| Blinebry-Drinkard (BD) | vent J-30 | J | 30 | 21S | 37E | Lea | moved 20 ft east | | |

LAND TYPE: BLM _____ STATE _____ FEE LANDOWNER Nymeyer Properties % Beverly Shaw OTHER _____

Depth to Groundwater 99.45 feet NMOCD SITE ASSESSMENT RANKING SCORE: 30*

Date Started 2/26/2007 Date Completed 4/18/2007 OCD Witness no

Soil Excavated 400 cubic yards Excavation Length 30 Width 30 Depth 12 feet

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

FINAL ANALYTICAL RESULTS: Sample Date 3/13/2007, 4/18/2007 Sample Depth 12 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 NMOCD guidelines.

CHLORIDE FIELD TESTS

| Sample Location | GRO mg/kg | DRO mg/kg | Chloride mg/kg |
|----------------------|-----------|-----------|----------------|
| 4-WALL COMP | <10.0 | <10.0 | 2520 |
| BOTTOM COMP | <10.0 | <10.0 | 5440 |
| BACKFILL | <10.0 | <10.0 | 3080 |
| SOIL BORE # 1 at 40' | | | 608 |
| SOIL BORE # 2 at 85' | | | 1200 |

| LOCATION | DEPTH | mg/kg |
|--|-------|-------|
| soil bore # 2 25 ft west of junction (source) | 15' | 1903 |
| | 20' | 3269 |
| | 25' | 4075 |
| | 30' | 5032 |
| | 35' | 3009 |
| | 40' | 3594 |
| | 45' | 2971 |
| | 50' | 2475 |
| | 55' | 1662 |
| | 60' | 1298 |
| | 65' | 1725 |
| | 70' | 1877 |
| | 75' | 1877 |
| | 80' | 1542 |
| | 85' | 1475 |
| 90' | 1561 | |

General Description of Remedial Action: This junction was addressed under the pipeline replacement/upgrade program. A new, watertight junction box was installed 20 ft east of the former. After the former box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals, producing a 30x30x12-ft-deep hole. Chloride field tests were performed on each sample, which yielded elevated levels of chloride that did not relent with depth. Organic vapors were measured using a PID, which yielded generally low concentrations. Representative composite samples were sent to a commercial laboratory for analysis. The excavated soil was blended on-site and returned to the excavation up to 6 ft below ground surface. At 6-5 ft BGS, a 1-ft-thick clay barrier was installed. The remaining fill was blended with clean, imported soil and return to the excavation to ground surface and contoured to the surrounding area.

On 3/16/2007, 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 depth of chloride presence, two soil borings were initiated on 4/18/2007 at 25 ft south (SB 1) and 25 ft west (SB 2) of the former junction. SB 1 was advanced to 40 ft BGS and SB 2 was advanced to 90 ft BGS while soil samples were collected every 5 ft and tested for chloride concentrations. SB 1 at 40 ft and SB 2 at 85 ft were sent to a commercial laboratory for analysis, which confirmed elevated chloride concentrations. Each bore hole was plugged with bentonite to ground surface. NMOCD was notified of potential groundwater on 8/5/2008.

*One inactive water well 500 ft southeast.

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, cross-section, lab results, boring data, 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 Darnell Mitchell COMPANY RICE OPERATING COMPANY

REPORT ASSEMBLED BY Katie Jones INITIAL KJ

PROJECT LEADER Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr. DATE 1-21-09

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

BD vent J-30

Unit J, Section 30, T21S, R37E



undisturbed junction box, facing north

3/20/2006



taking vertical sample

3/6/2007



squaring excavation

3/9/2007



backfilling excavation up to 6 ft BGS

3/14/2007

BD vent J-30

Unit J, Section 30, T21S, R37E



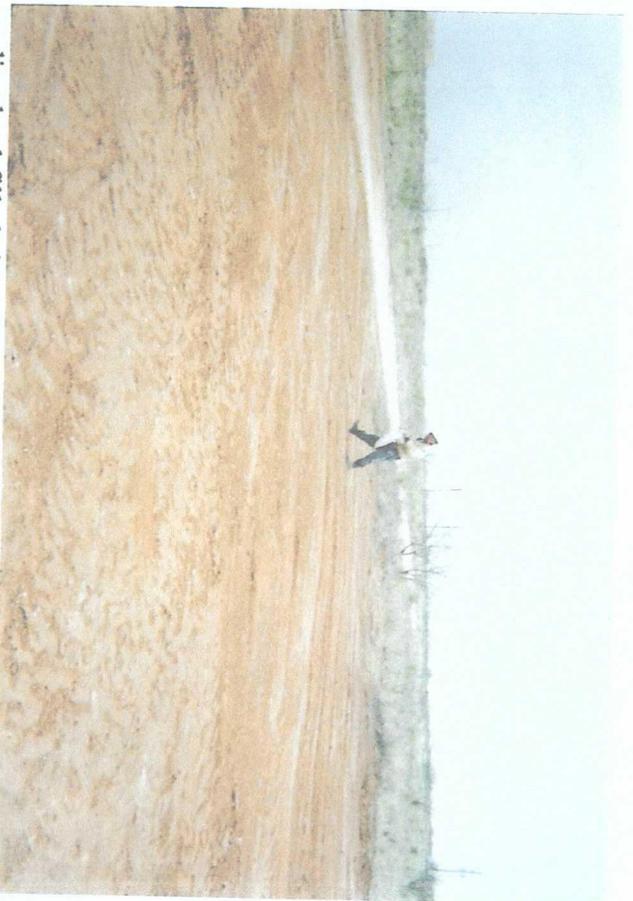
clay barrier being installed

3/15/2007



soil boring with new, watertight junction box in background

4/18/2007



seeding backfilled site

3/16/2007



plugging bore hole with bentonite

4/18/2007

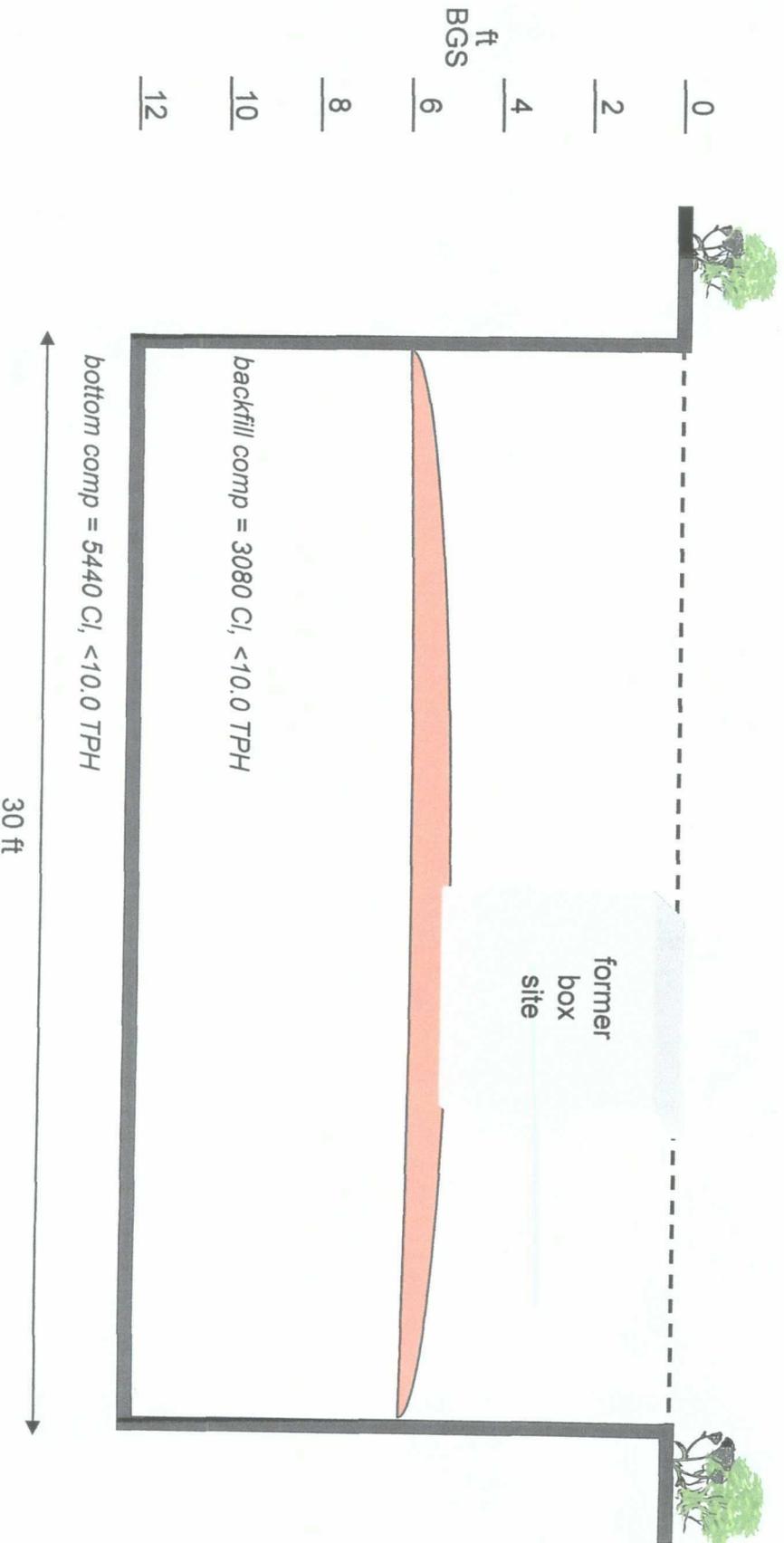
BD vent J-30

Unit J, Section 30, T21S, R37E

Excavation Cross-Section

W

E





PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: ROY R. RASCON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471

COPY

Receiving Date: 03/13/07
Reporting Date: 03/14/07
Project Number: NOT GIVEN
Project Name: BD JCT VENT J-30
Project Location: NOT GIVEN

Sampling Date: 03/13/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/HM

| LAB NUMBER | SAMPLE ID | GRO (C ₆ -C ₁₀) (mg/Kg) | DRO (>C ₁₀ -C ₂₈) (mg/Kg) | CI* (mg/Kg) |
|-----------------------------|-------------------|--|--|----------------|
| ANALYSIS DATE | | 03/14/07 | 03/14/07 | 03/14/07 |
| H12324-1 | 5 PT BOTTOM COMP. | <10.0 | <10.0 | 5440 |
| H12324-2 | 4 WALL COMP. | <10.0 | <10.0 | 2520 |
| H12324-3 | BACKFILL BLEND | <10.0 | <10.0 | 3080 |
| Quality Control | | 742 | 760 | 490 |
| True Value QC | | 800 | 800 | 500 |
| % Recovery | | 92.8 | 95.0 | 98.0 |
| Relative Percent Difference | | 2.5 | 1.7 | 1.0 |

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

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

Chemist

3/14/07
Date

H12324

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

CARDINAL LABORATORIES, INC.

2111 Beachwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page _____ of _____

| BILL TO | | | | | | | | | | ANALYSIS REQUEST | | | | | | | | | |
|---|-------------------|-------------------|--------------|-------------|------------|------|------------|--------|--------|------------------|------------|--------|----------|---------|-------|-----------|------|--|--|
| Company Name: Rice Operating Co. | | | | | | | | | | P.O. #: | | | | | | | | | |
| Project Manager: Roy Rascone | | | | | | | | | | Company: | | | | | | | | | |
| Address: 100 W. Towler | | | | | | | | | | Attn: | | | | | | | | | |
| City: Hobbs | | | | | | | | | | Address: | | | | | | | | | |
| State: NM Zip: 88240 | | | | | | | | | | City: | | | | | | | | | |
| Phone #: 393-9174 | | | | | | | | | | State: | | | | | | | | | |
| Fax #: 397-1471 | | | | | | | | | | Phone #: | | | | | | | | | |
| Project #: | | | | | | | | | | Fax #: | | | | | | | | | |
| Project Owner: B.D. Jett Vent I-30 | | | | | | | | | | Project #: | | | | | | | | | |
| Project Location: Donnell Mitchell | | | | | | | | | | Project #: | | | | | | | | | |
| Sampler Name: Donnell Mitchell | | | | | | | | | | Project #: | | | | | | | | | |
| FOR LAB USE ONLY | | | | | | | | | | Project #: | | | | | | | | | |
| Lab I.D. | Sample I.D. | (G)RAB OR (C)OMP. | # CONTAINERS | GROUNDWATER | WASTEWATER | SOIL | WASTEWATER | SLUDGE | OTHER: | ACID/BASIS | ICE / COOL | OTHER: | PRESERV. | DATE | TIME | 80ISM TPH | CL 7 | | |
| H2324-1 | 5 FT Bottom Comp. | C | 1 | ✓ | | | | | | | | | | 3-13-07 | 10:00 | ✓ | | | |
| -2 | 4 in well Comp | C | 1 | ✓ | | | | | | | | | | 3-13-07 | 8:10 | ✓ | | | |
| -3 | Backfill Blend | C | 1 | ✓ | | | | | | | | | | 3-13-07 | 8:40 | ✓ | | | |

PLEASE NOTE: Liability and damages, Cardinal's ability and client's retention remain for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All other damages, including but not limited to, shall be deemed waived under this contract. In no event shall Cardinal be held liable for incidents of consequential damage, including but not limited to, business interruption, loss of use, or loss of profits, incurred by client, its subsidiaries, affiliates, successors and/or related to the performance or non-performance of services provided by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 2 1/2 % per annum from the original date of invoice, and all costs or collections, including attorney's fees.

Phone Result: Yes No
Fax Result: Yes No

REMARKS: **E-mail Results To R-Rascone @ Rice S.W.D Com.**

Received By: (Lab Staff) **Donnell Mitchell**
Date: **3/13/07** Time: **4:30**
Received By: **Donnell Mitchell**
Date: **3/13/07** Time: **4:30**
Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

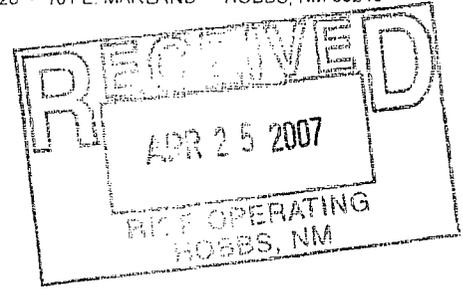
† Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.



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ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: ROY RASCON
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (505) 397-1471



Receiving Date: 04/20/07
Reporting Date: 04/20/07
Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: BD-J-30 VENT

Analysis Date: 04/20/07
Sampling Date: 04/18/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: HM

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| LAB NUMBER | SAMPLE ID | Cl ⁻ (mg/Kg) |
|-----------------------------|-------------|----------------------------|
| H12487-1 | SB #1 @ 40' | 608 |
| H12487-2 | SB #2 @ 85' | 1200 |
| | | |
| | | |
| | | |
| | | |
| Quality Control | | 480 |
| True Value QC | | 500 |
| % Recovery | | 96 |
| Relative Percent Difference | | 2.1 |

METHOD: Standard Methods 4500-Cl⁻B

Note: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

04-20-07
Date

H12487

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SOIL BORE DATA SHEET

| | | | | | |
|-------------------|--|------------------------------------|--|------------------------|--|
| SYSTEM: BD | | LOCATION: J-30 VENT | | LANDOWNER: | |
| DGW: 100ft | | GPS: 32*26.808N 103*11.971W | | SB/MW ID: SB #2 | |
| UL J | | SEC. 30 | | TOWNSHIP 21S | |
| | | | | RANGE 37E | |

| DEPTH(ft) | SOIL | WATER | RATIO | AgNO ₃ | Cl ⁻ | PID | TIME | SAMPLE DESCRIPTION |
|-----------|------|-------|-------|-------------------|-----------------|-----|------|--|
| 15 | 10 | 30.7 | 3.07 | 0.62 | 1903 | N/A | 2:25 | Red;dry; VFG sand, generally uncon.; well srted.; many pebbles (0.5-2cm) of well cmtd sand and caliche |
| 20 | 10 | 30 | 3.00 | 1.09 | 3269 | N/A | 2:27 | Generally same as 15', except larger % (25%) pebble-size grns |
| 25 | 10.1 | 30.5 | 3.02 | 1.35 | 4075 | N/A | 2:28 | Generally same as 15', except few pebble-size grns |
| 30 | 10.2 | 30.2 | 2.96 | 1.7 | 5032 | N/A | 2:30 | Same as 25' |
| 35 | 10.7 | 30.1 | 2.81 | 1.07 | 3009 | N/A | 2:35 | Tan;dry;VFG sand; uncon; generally well srted w/ moderate amt larger pebbles |
| 40 | 10.8 | 30.1 | 2.79 | 1.29 | 3594 | N/A | 2:40 | Same as 35' except few pebbles |
| 45 | 10.6 | 31.5 | 2.97 | 1 | 2971 | N/A | 2:57 | Tan/reddish;dry; VFG sand; uncon; well srted |
| 50 | 10.1 | 30.5 | 3.02 | 0.82 | 2475 | N/A | 2:58 | Same as 45' |
| 55 | 10.7 | 31.2 | 2.92 | 0.57 | 1662 | N/A | 3:00 | Red;dry; VFG sand, generally uncon.; well srted.;few pebbles (0.5-2cm) of well cmtd sand |
| 60 | 10.5 | 30.3 | 2.89 | 0.45 | 1298 | N/A | 3:02 | Same as 55' |
| 65 | 10.5 | 30.2 | 2.88 | 0.6 | 1725 | N/A | 3:07 | Same as 55' except slightly damp |
| 70 | 10.5 | 30.8 | 2.93 | 0.64 | 1877 | N/A | 3:25 | Same as 55' except damp |
| 74 | 10.2 | 30.4 | 2.98 | 0.63 | 1877 | N/A | 3:30 | Tan;dry;VFG sand; uncon; well srted |
| 80 | 10.5 | 30 | 2.86 | 0.54 | 1542 | N/A | 3:55 | Reddish tan; dry; VFG sand, uncon; well srted |
| 85 | 10.3 | 30.4 | 2.95 | 0.5 | 1475 | N/A | 4:00 | Same as 80' |
| 90 | 10.9 | 30.4 | 2.79 | 0.56 | 1561 | N/A | 4:10 | Same as 80' |

TD @ 90 ft.

NOTES: Plugged with 6 bags of bentonite
 85' sample bottled for lab analysis (Chlorides)
 Sandstone layer 75'-77'

SIGNATURE: Tony Grieco **DATE:** 4/18/2007

CHLORIDE CONCENTRATION CURVE

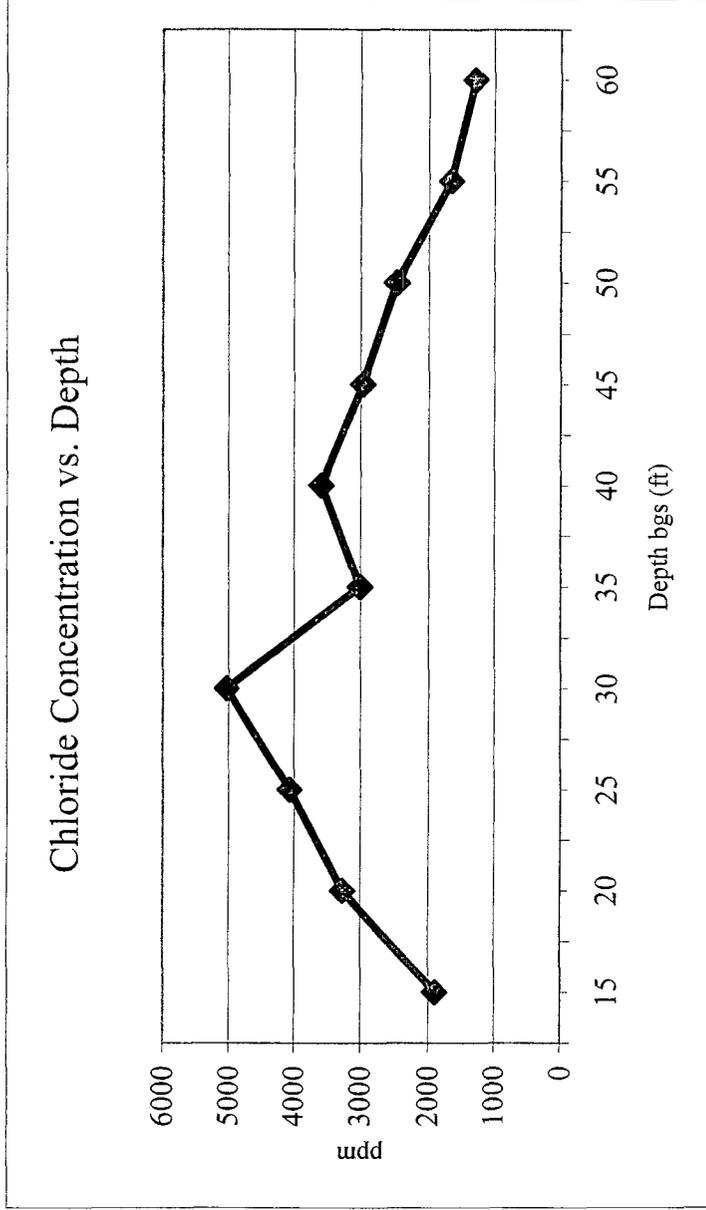
RICE Operating Company

BD vent J-30

unit 'J', Sec. 30, T21S, R37E

Soil boring samples at 25 ft west of junction (source)

| Depth bgs (ft) | Cl ppm |
|----------------|--------|
| 15 | 1903 |
| 20 | 3269 |
| 25 | 4075 |
| 30 | 5032 |
| 35 | 3009 |
| 40 | 3594 |
| 45 | 2971 |
| 50 | 2475 |
| 55 | 1662 |
| 60 | 1298 |
| 65 | 1725 |
| 70 | 1877 |
| 75 | 1877 |
| 80 | 1542 |
| 85 | 1475 |
| 90 | 1561 |



Groundwater = 99.45 ft