

1R - 426-321

REPORTS

DATE:

3-4-13

1R426-321

RECEIVED

APR 2 2013

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

BD O-32 vent
2012

DISCLOSURE

APR 2 2013

RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE* REPORT

Oil Conservation Division
1220 S. St. Francis Drive

BOX LOCATION

| SWD SYSTEM | JUNCTION | UNIT | SECTION | TOWNSHIP | RANGE | COUNTY | BOX-DIMENSIONS IN FEET | | |
|------------------------|-----------|------|---------|----------|-------|--------|------------------------|-------|-------|
| | | | | | | | Length | Width | Depth |
| Blinebry-Drinkard (BD) | O-32 vent | O | 32 | 22S | 38E | Lea | 6' | 6' | 5' |
| | | | | | | | Eliminated | | |

LAND TYPE: BLM ___ STATE ___ FEE LANDOWNER D.K.Boyd Oil and Gas Co. OTHER _____

Depth to Groundwater 154 feet NMOCD SITE ASSESSMENT RANKING SCORE: 0

Date Started 7/20/2011 Date Completed 3/5/2012 OCD Witness no

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

Soil Disposed 236 cubic yards Offsite Facility Sundance Services Location Eunice, NM

FIELD SOURCE RESULTS: Sample Date 9/30/2011 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.

| Sample Location | PID (field) ppm | GRO mg/kg | DRO mg/kg | Chlorides mg/kg |
|------------------|-----------------|-----------|-----------|-----------------|
| 4-WALL COMP. | 43.9 | <50 | <50 | 1,090 |
| BOTTOM COMP. | 0.5 | <50 | <50 | 224 |
| BLENDED BACKFILL | 1.6 | <50 | <50 | 672 |

CHLORIDE FIELD TESTS

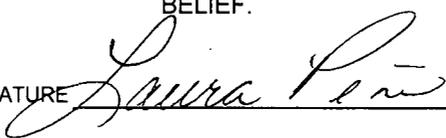
| LOCATION | DEPTH | mg/kg |
|--|-------|-------|
| 4 wall comp. | n/a | 1,255 |
| bottom comp. | 12' | 207 |
| backfill comp. | n/a | 471 |
| background | 6" | 114 |
| vertical delineation trench at junction (source) | 6' | 4,706 |
| | 7' | 958 |
| | 8' | 1,030 |
| | 9' | 3,895 |
| | 10' | 5,227 |
| | 11' | 3,160 |
| | 12' | 2,759 |

General Description of Remedial Action: This junction box was 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 30x30x12 ft deep excavation. Chloride field tests performed on soil samples did not decrease with depth. Organic vapors were measured using a PID which yielded slightly elevated 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 236 yards of blended backfill was transported to a NMOCD approved disposal facility. The excavation was backfilled to 6 ft. below ground surface (BGS). On 2/29/12, a 35x30 ft. 20-mil reinforced liner was installed at 6 ft. BGS and the remainder of the excavation was backfilled with clean imported soil to ground surface and contoured to the surrounding area. On 8/21/12, 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 2/20/2013.

Additional evaluation is **LOW** priority.

Enclosures: site location map, photos, lab results, PID (field) screenings, cross-section diagram, chloride curve, revegetation form

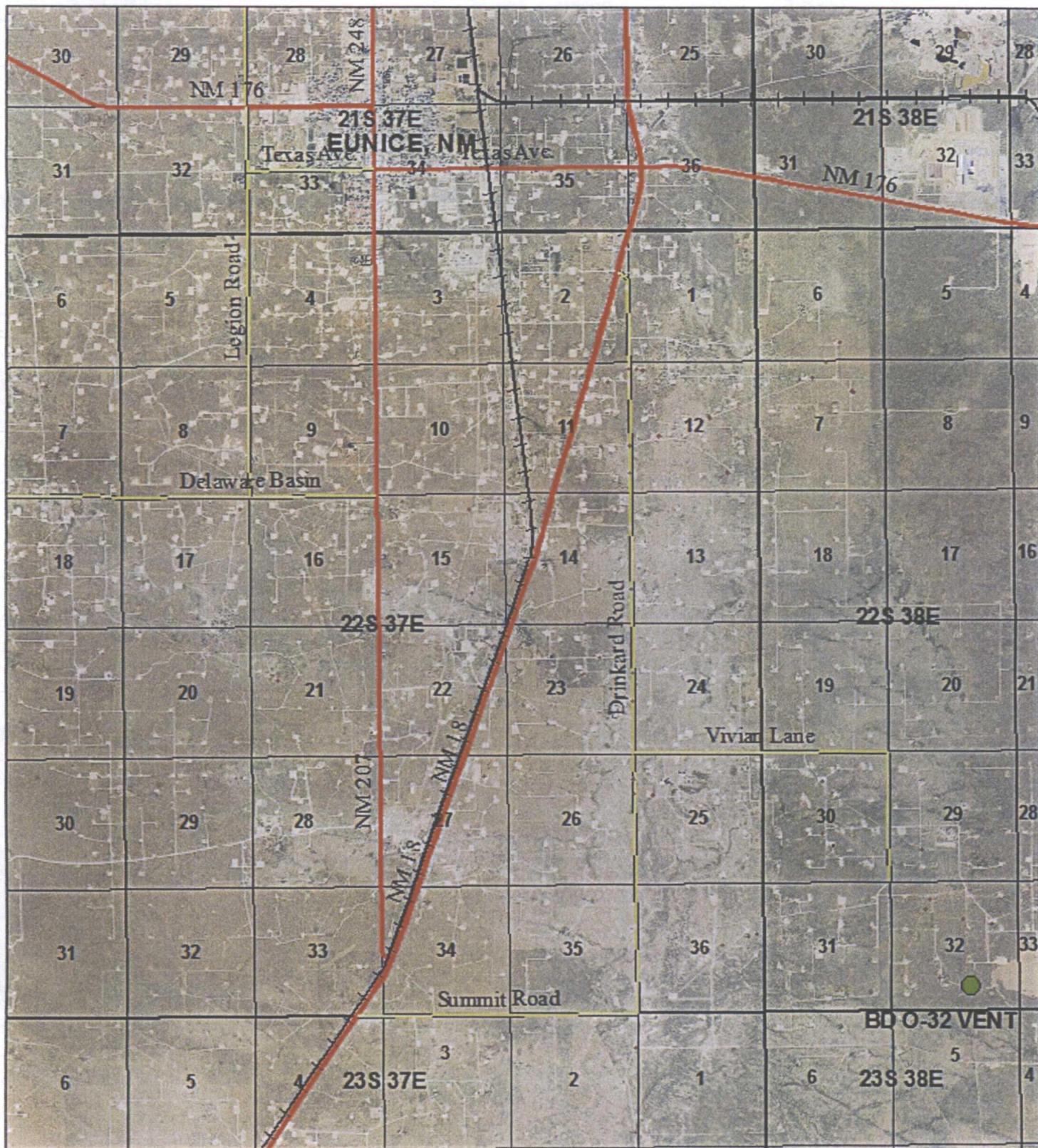
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REPORT ASSEMBLED BY Laura Peña SIGNATURE  COMPANY Rice Operating

SITE SUPERVISOR Oscar Frayre SIGNATURE Not Available COMPANY Rice Environmental Consulting & Safety

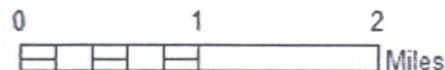
PROJECT LEADER Zach Conder SIGNATURE  DATE 3-4-13

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



BD O-32 VENT

UL/O SECTION 32
T-22-S R-38-E
LEA COUNTY, NM



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

BD O-32 Vent

UL/O Sec.32 (T22S-R38E)



Site prior, facing west 7/20/2011



Excavating site, facing northwest 7/20/2011



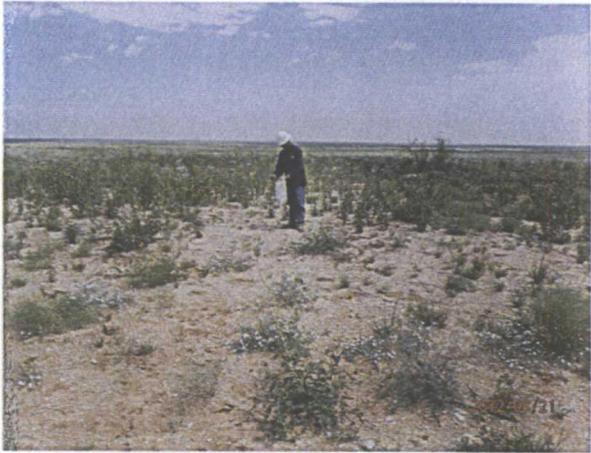
Collecting sample, facing southwest 7/20/2011



Installing liner, facing east 2/29/2012



Backfilling site, facing south 3/1/2012



Seeding site, facing east 8/21/2012

October 07, 2011

Hack Conder
Rice Operating Company
112 W. Taylor
Hobbs, NM 88240

RE: BD O-32 JCT(22/38)

Enclosed are the results of analyses for samples received by the laboratory on 09/30/11 16:10.

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 09/30/2011 | Sampling Date: | 09/30/2011 |
| Reported: | 10/07/2011 | Sampling Type: | Soil |
| Project Name: | BD O-32 JCT(22/38) | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: 5 PT. BOTTOM COMP (H102111-01)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|-------------------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 224 | 16.0 | 10/03/2011 | ND | 448 | 112 | 400 | 7.41 | | |
| TPH 8015M | | mg/kg | | Analyzed By: ck | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <50.0 | 50.0 | 10/04/2011 | ND | 154 | 76.8 | 200 | 1.36 | | |
| DRO >C10-C28 | <50.0 | 50.0 | 10/04/2011 | ND | 206 | 103 | 200 | 4.35 | | |
| Surrogate: 1-Chlorooctane | | 97.7 % | 55.5-154 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | | 103 % | 57.6-158 | | | | | | | |

Sample ID: 4 WALL COMP (H102111-02)

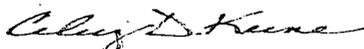
| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|-------------------------------|-------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 1090 | 16.0 | 10/03/2011 | ND | 448 | 112 | 400 | 7.41 | | |
| TPH 8015M | | mg/kg | | Analyzed By: ck | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <50.0 | 50.0 | 10/04/2011 | ND | 154 | 76.8 | 200 | 1.36 | | |
| DRO >C10-C28 | <50.0 | 50.0 | 10/04/2011 | ND | 206 | 103 | 200 | 4.35 | | |
| Surrogate: 1-Chlorooctane | | 105 % | 55.5-154 | | | | | | | |
| Surrogate: 1-Chlorooctadecane | | 109 % | 57.6-158 | | | | | | | |

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

| | | | |
|-------------------|---------------------|---------------------|---------------|
| Received: | 09/30/2011 | Sampling Date: | 09/30/2011 |
| Reported: | 10/07/2011 | Sampling Type: | Soil |
| Project Name: | BD O-32 JCT(22/38) | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Jodi Henson |
| Project Location: | NOT GIVEN | | |

Sample ID: BLENDED BACKFILL COMP (H102111-03)

| Chloride, SM4500CI-B | | mg/kg | | Analyzed By: HM | | | | | | |
|----------------------|------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride | 672 | 16.0 | 10/03/2011 | ND | 448 | 112 | 400 | 7.41 | | |
| TPH 8015M | | mg/kg | | Analyzed By: ck | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| GRO C6-C10 | <50.0 | 50.0 | 10/04/2011 | ND | 154 | 76.8 | 200 | 1.36 | | |
| DRO >C10-C28 | <50.0 | 50.0 | 10/04/2011 | ND | 206 | 103 | 200 | 4.35 | | |

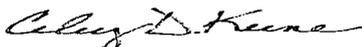
| | | |
|-------------------------------|-------|----------|
| Surrogate: 1-Chlorooctane | 104 % | 55.5-154 |
| Surrogate: 1-Chlorooctadecane | 109 % | 57.6-158 |

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

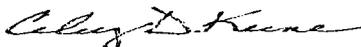
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500C-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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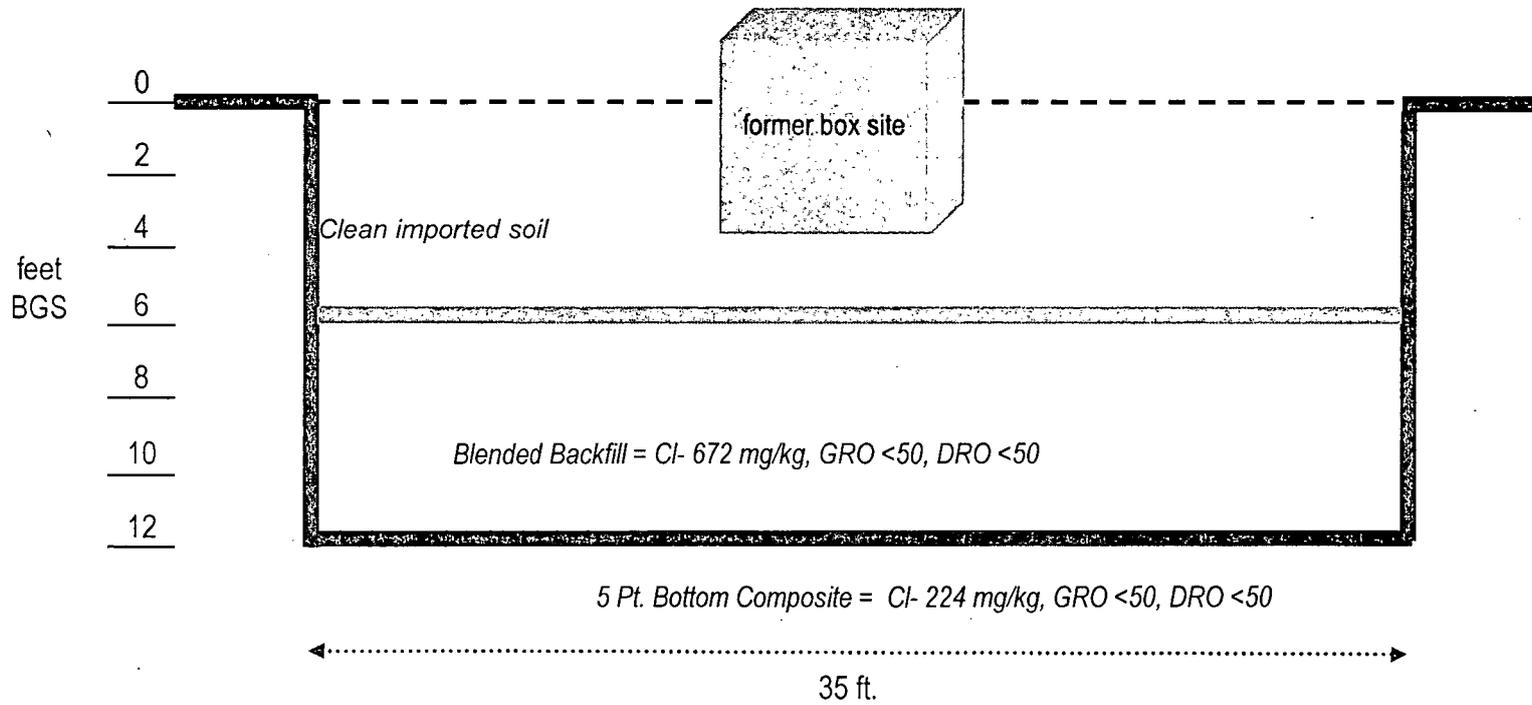
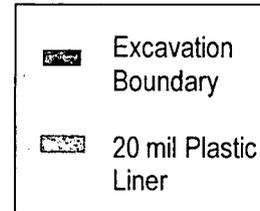
Celey D. Keene, Lab Director/Quality Manager

BD O-32 vent
Unit 'O', Sec. 32, T22S, R38E

Excavation Cross-Section

N

S



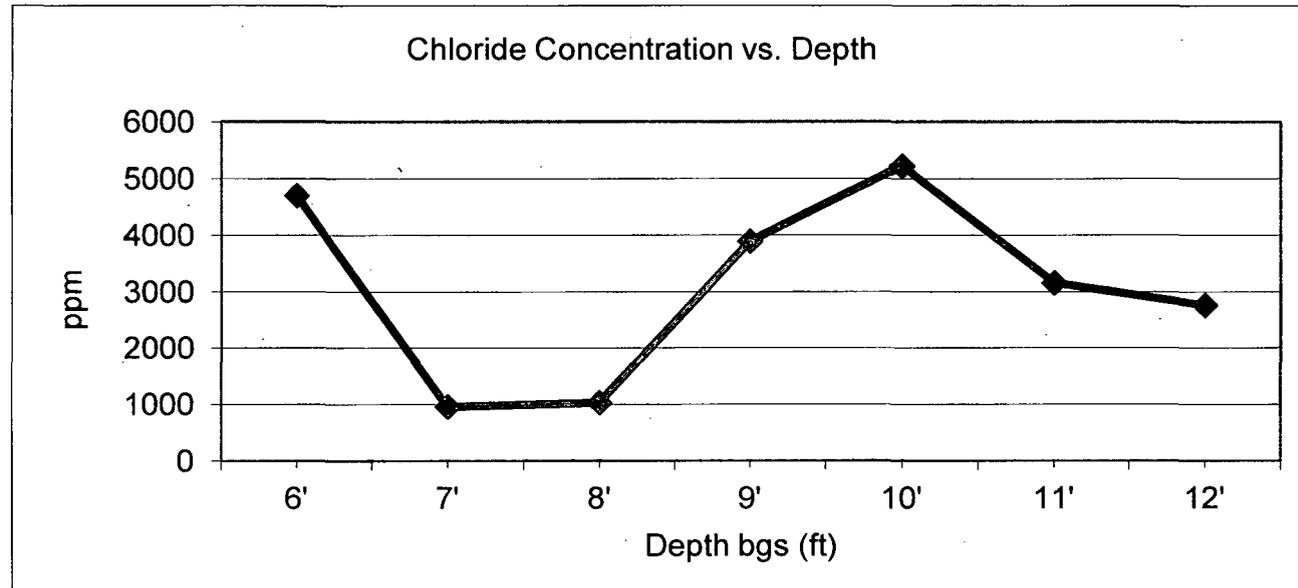
BD O-32 vent

Unit 'O', Sec. 32, T22S, R38E

Backhoe samples at the junction (source)

| Depth bgs (ft) | [Cl] ppm |
|----------------|----------|
| 6' | 4706 |
| 7' | 958 |
| 8' | 1030 |
| 9' | 3895 |
| 10' | 5227 |
| 11' | 3160 |
| 12' | 2759 |

Groundwater = 154 ft





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

REVEGETATION FORM

1. General Information

| | | | | | | |
|--|---------------|------------------|---------------|---|------------------------|-------------------------|
| Site name: BD O-32 VENT | | | | | | |
| U/L O | Section 32 | Township T22S | Range R38E | County LEA | Latitude 32 20.618' | Longitude 103 4.830' |
| Contact Name: ZACHARY CONDER | | | | | | |
| Email: zconder@rice-ecs.com | | | | | | |
| | | | | | | |
| Site size: 35' X 30' Square feet: 1,050 | | | | Map detail of site attached <input checked="" type="checkbox"/> | | |
| Additional information: | | | | | | |

2. Soils

**Do not rip caliches 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 checked="" type="checkbox"/> | Depth (in): | Roller pack <input type="checkbox"/> |
| Date completed: 3-5-12 | | | | | |

3. Bioremediation

| | | |
|-------------------------------------|------------------------------|---|
| Fertilizer <input type="checkbox"/> | Hay <input type="checkbox"/> | Other <input checked="" 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: 4 LBS. BLUE GRAMA, 4 LBS. SIDEOATS GRAMA Seeding date: 8-21-12 |
| 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 checked="" type="checkbox"/> | Observations: | |
| Number of photos: | SEED WAS RAKED INTO SOIL | |

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: | Title: Environmental Tech | Date: 8-21-12 |
| Signature: | | |