

RICE *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2022

REVIEWED

By Nelson Velez at 12:48 pm, Dec 16, 2022

Bradford Billings

New Mexico Oil Conservation Division

1220 So. St. Francis Drive

Santa Fe, New Mexico 87505

**RE: 2021 Annual Groundwater Report
Rice Operating Company – BD SWD System****BD H-35 Emergency Overflow Pit (AP-71): UL/H, Section 35, T22S, R37E**Review of 2021 Annual Groundwater Report: **Content**
satisfactory

1. Continue sampling on a semi-annual schedule at a minimum

Submit next annual groundwater report to OCD no later than March 31, 2023.

Mr. Billings:

ROC is the service provider (agent) for the BD Saltwater Disposal System and has no ownership of any portion of pipeline, well or facility. The BD SWD System is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

The site is located approximately 6.5 miles southeast of Eunice, New Mexico at UL/H, Section 35, T22S, R37E as shown on the Geographical Location Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 44 ft below ground surface (bgs).

One monitoring well was installed on December 21st, 2005, following the approval of the Investigation and Characterization Work Plan on November 9th, 2004. The well has been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 1,400 mg/L in MW-1. On February 4th, 2022, NMOCD granted approval to cease sulfate analysis from MW-1. ROC will continue quarterly sampling in 2022.

Attached is the Appendix, which contains:

1. A Geographical Location Map.
2. A map showing well locations.
3. A table presenting all laboratory results and depth to groundwater for MW-1, and a graph showing recent laboratory results.
4. The laboratory analytical results for 2021.

Rice Operating Company appreciates the opportunity to work with you on this project. Please contact me at (575) 393-9174 or Edward Hansen at (505) 920-4965 if you have any questions or wish to further discuss this site. Thank you for your time and consideration.

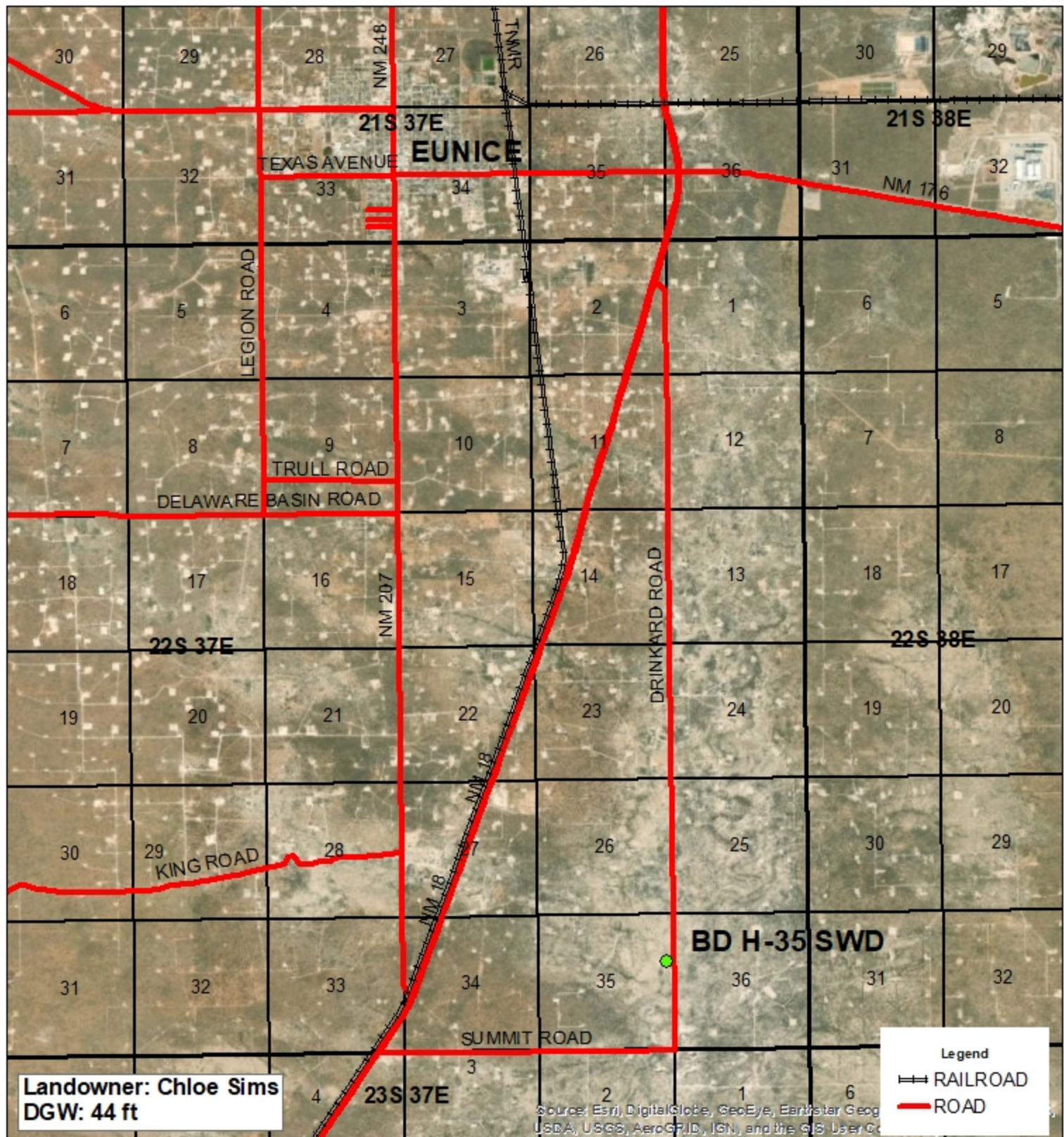
Sincerely,

A handwritten signature in cursive script that reads "Katie Davis".

Katie Davis
Environmental Manager
RICE Operating Company (ROC)

Cc – Edward J. Hansen (ROC)

appendix



**BD H-35 SWD
EMERGENCY
OVERFLOW PIT**

AP-71

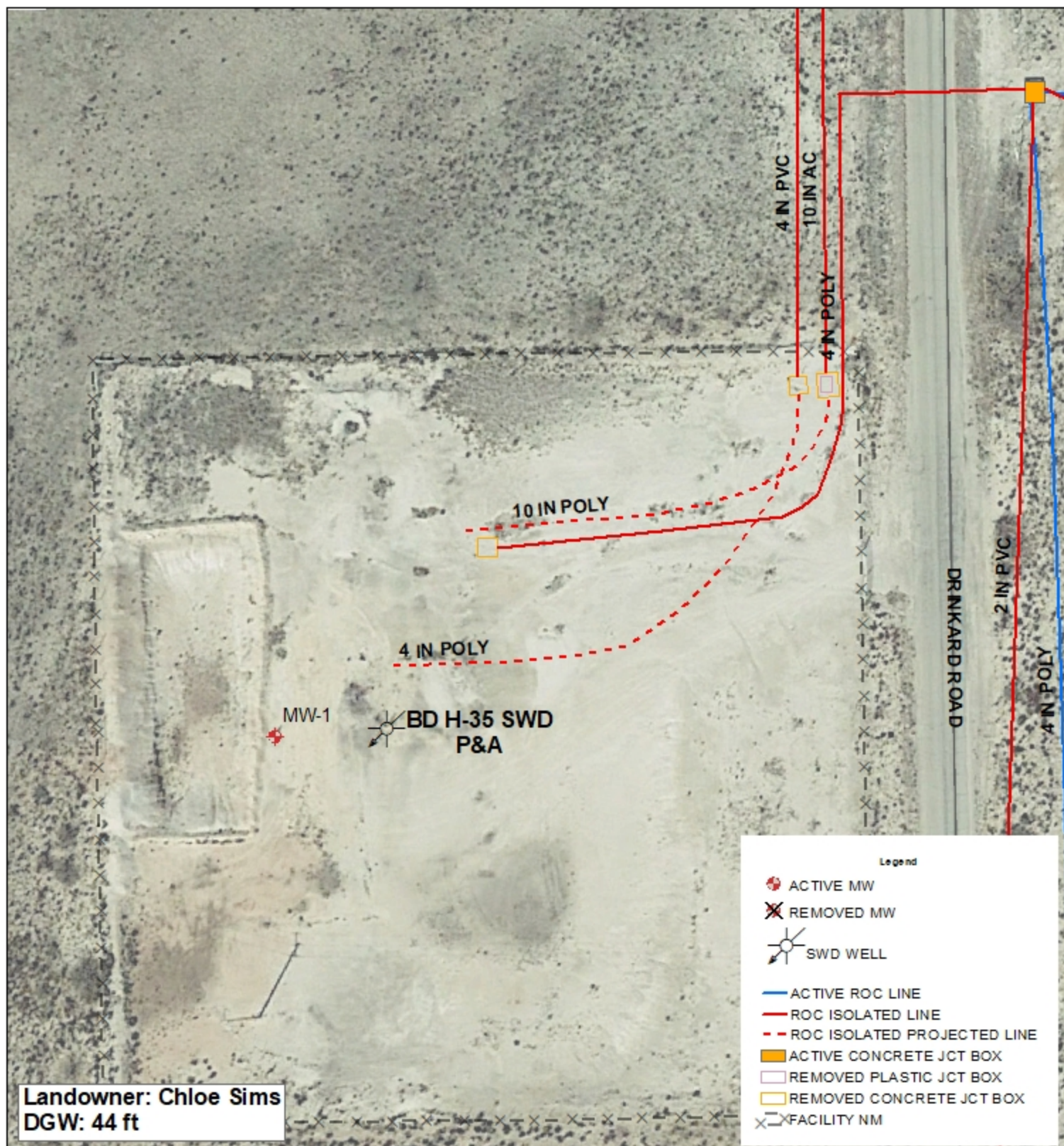
UL H SECTION 35
T-22-S R-37-E
LEA COUNTY, NM

GPS: 32.350497 -103.125984
NAD 83 STATE PLANE PROJ
NM EAST ZONE

0 0.5 1
Miles

Drawing date: 31/28/20
Drafted by: T. Grieco





BD H-35 SWD EMERGENCY OVERFLOW PIT

AP-71

UL H SECTION 35
T-22-S R-37-E
LEA COUNTY, NM

GPS: 32.350497 -103.125984
NAD 83 STATE PLANE PROJ
NM EAST ZONE

0 25 50
Feet

Drawing date: 2/3/20
Drafted by: T. Grieco



ROC - BD H-35 (AP-71)

Unit Letter H, Section 35, T22S, R37E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|----------------|-------------|-------------|---------------|-------------|-------|--------|---------|---------|---------------|---------------|---------|---------------|
| 1 | 43.64 | 57.2 | 8.8 | 30 | 1/4/2006 | 1,880 | 4,290 | <0.001 | <0.001 | <0.001 | <0.001 | 383 | Clear No odor |
| 1 | 43.79 | 57.2 | 8.7 | 30 | 4/24/2006 | 2,360 | 5,380 | <0.001 | <0.001 | <0.001 | <0.001 | 405 | XXX |
| 1 | 43.92 | 57.2 | 8.6 | 35 | 7/19/2006 | XXX | XXX | XXX | XXX | XXX | XXX | XXX | XXX |
| 1 | 43.83 | 57.2 | 8.7 | 30 | 10/11/2006 | 2,880 | 7,460 | <0.001 | <0.001 | <0.001 | <0.001 | 561 | Clear |
| 1 | 44.1 | 57.16 | 8.5 | 30 | 1/25/2007 | 3,240 | 5,300 | <0.001 | <0.001 | <0.001 | <0.001 | 556 | XXX |
| 1 | 44.2 | 57.16 | 8.4 | 30 | 4/4/2007 | 3,220 | 8,680 | <0.001 | <0.001 | <0.001 | <0.001 | 381 | XXX |
| 1 | 43.99 | 57.16 | 8.6 | 30 | 8/24/2007 | 4,749 | 12,345 | 0.003 | 0.003 | 0.003 | 0.008 | 565 | Clear No odor |
| 1 | 44.13 | 57.16 | 8.5 | 30 | 10/31/2007 | 3,400 | 7,028 | <0.002 | <0.002 | <0.002 | <0.006 | 499 | Clear No odor |
| 1 | 44.22 | 57.2 | 8.4 | 30 | 1/15/2008 | 4,800 | 9,194 | <0.001 | <0.001 | <0.001 | <0.003 | 665 | Clear No odor |
| 1 | 44.26 | 57.2 | 8.4 | 30 | 4/7/2008 | 4,600 | 9,350 | <0.001 | <0.001 | <0.001 | <0.003 | 888 | Clear No odor |
| 1 | 44.34 | 57.2 | 8.4 | 30 | 7/22/2008 | 4,400 | 9,580 | <0.002 | <0.002 | <0.002 | <0.006 | 714 | Clear No odor |
| 1 | 44.4 | 57.2 | 8.3 | 30 | 10/2/2008 | 3,950 | 9,350 | <0.001 | <0.001 | <0.001 | <0.003 | 675 | Clear No odor |
| 1 | 44.47 | 57.2 | 8.3 | 30 | 1/14/2009 | 3,650 | 7,600 | <0.001 | <0.001 | <0.001 | <0.003 | 657 | Clear No odor |
| 1 | 44.52 | 57.2 | 8.2 | 30 | 4/14/2009 | 3,400 | 6,550 | <0.001 | <0.001 | <0.001 | <0.003 | 629 | Clear No odor |
| 1 | 44.56 | 57.23 | 8.2 | 30 | 7/13/2009 | 2,380 | 4,800 | <0.001 | <0.001 | <0.001 | <0.003 | 522 | Clear No odor |
| 1 | 44.62 | 57.23 | 8.2 | 30 | 10/7/2009 | 3,050 | 6,900 | <0.001 | <0.001 | <0.001 | <0.003 | 519 | Clear No odor |
| 1 | 44.66 | 57.23 | 8.2 | 30 | 1/13/2010 | 3,050 | 6,300 | <0.001 | <0.001 | <0.001 | <0.003 | 490 | Clear No odor |
| 1 | 44.68 | 57.23 | 8.2 | 30 | 4/9/2010 | 2,850 | 5,480 | <0.001 | <0.001 | <0.001 | <0.003 | 618 | Clear No odor |
| 1 | 44.6 | 57.23 | 8.2 | 30 | 7/9/2010 | 2,650 | 4,970 | <0.001 | <0.001 | <0.001 | <0.003 | 526 | Clear No odor |
| 1 | 44.55 | 57.23 | 8.2 | 30 | 10/7/2010 | 2,750 | 6,430 | <0.001 | <0.001 | <0.001 | <0.003 | 512 | Clear No odor |
| 1 | 44.76 | 57.24 | 8.1 | 30 | 1/13/2011 | 2,650 | 5,160 | <0.001 | <0.001 | <0.001 | <0.003 | 598 | Clear No odor |
| 1 | 44.77 | 57.24 | 8.1 | 30 | 4/11/2011 | 3,050 | 5,480 | <0.001 | <0.001 | <0.001 | <0.003 | 567 | Clear No odor |
| 1 | 44.86 | 57.24 | 8 | 30 | 7/13/2011 | 4,050 | 6,590 | <0.001 | <0.001 | <0.001 | <0.003 | 597 | Clear No odor |
| 1 | 44.94 | 57.24 | 8 | 30 | 10/12/2011 | 3,400 | 5,890 | <0.001 | <0.001 | <0.001 | <0.003 | 607 | Clear No odor |
| 1 | 44.99 | 57.24 | 8 | 30 | 1/17/2012 | 2,470 | 5,070 | <0.001 | <0.001 | <0.001 | <0.003 | 558 | Clear No odor |
| 1 | 45.08 | 57.24 | 7.9 | 30 | 4/16/2012 | 2,570 | 5,100 | <0.001 | <0.001 | <0.001 | <0.003 | 437 | Clear No odor |
| 1 | 45.1 | 57.24 | 7.9 | 30 | 7/12/2012 | 2,430 | 4,940 | <0.001 | <0.001 | <0.001 | <0.003 | 504 | Clear No odor |
| 1 | 45.12 | 57.24 | 7.9 | 30 | 10/4/2012 | 2,700 | 5,380 | <0.001 | <0.001 | <0.001 | <0.003 | 615 | Clear No odor |
| 1 | 45.18 | 57.24 | 7.8 | 30 | 1/7/2013 | 2,200 | 4,290 | <0.001 | <0.001 | <0.001 | <0.003 | 501 | Clear No odor |

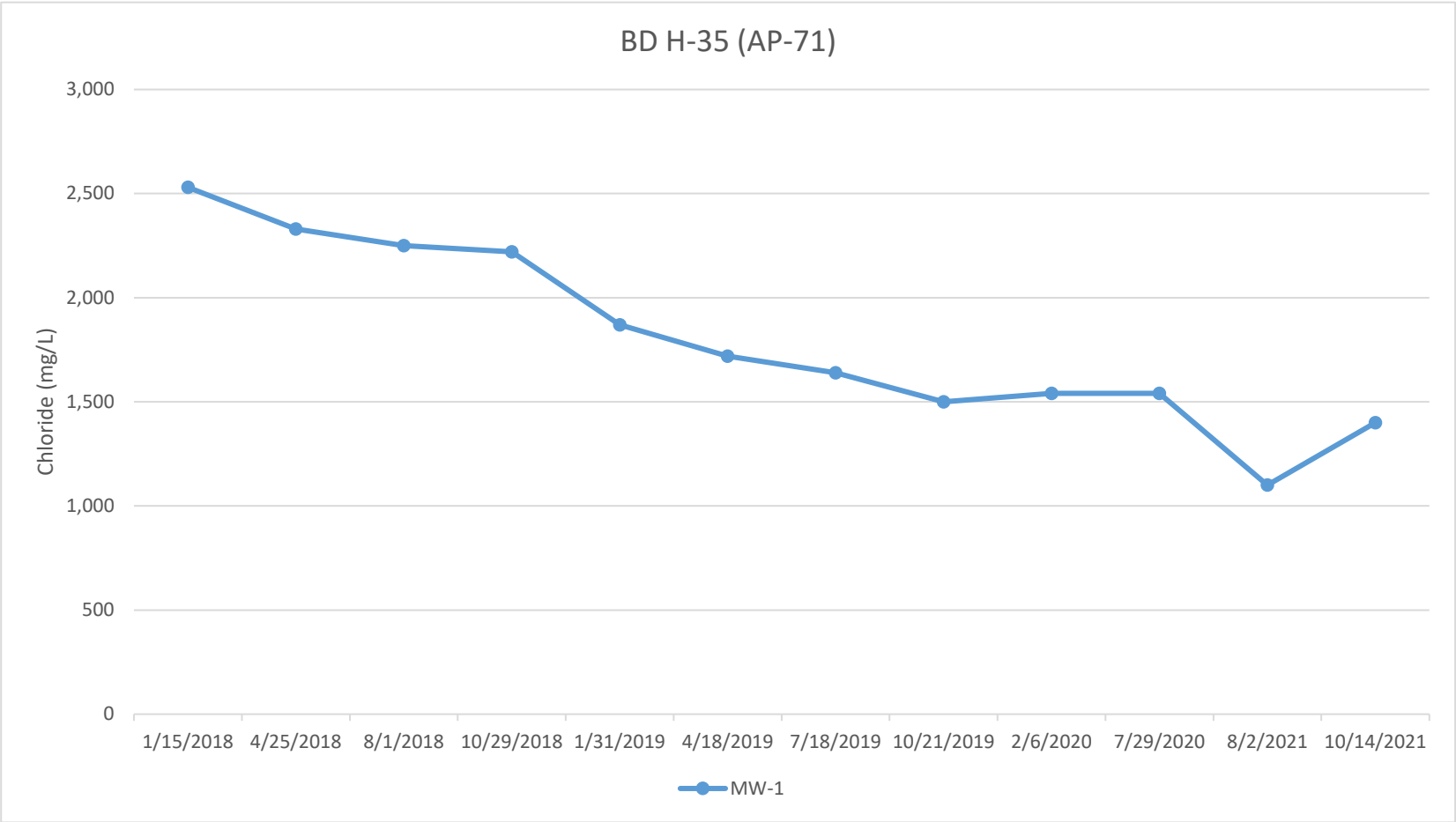
ROC - BD H-35 (AP-71)

Unit Letter H, Section 35, T22S, R37E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|----------------|-------------|-------------|---------------|-------------|--------|--------|---------|---------|---------------|---------------|---------|---------------|
| 1 | 45.25 | 57.24 | 7.8 | 30 | 4/18/2013 | 2,080 | 4,100 | <0.001 | <0.001 | <0.001 | <0.003 | 504 | Clear No odor |
| 1 | 45.24 | 57.24 | 7.8 | 30 | 7/15/2013 | 1,980 | 4,240 | XXX | XXX | XXX | XXX | 456 | Clear No odor |
| 1 | 45.32 | 57.24 | 7.7 | 30 | 10/16/2013 | 1,800 | 4,080 | XXX | XXX | XXX | XXX | 418 | Clear No odor |
| 1 | 45.37 | 57.24 | 7.7 | 30 | 1/15/2014 | 2,000 | 3,680 | XXX | XXX | XXX | XXX | 401 | Clear No odor |
| 1 | 45.44 | 57.24 | 7.7 | 30 | 4/4/2014 | 1,970 | 3,890 | XXX | XXX | XXX | XXX | 363 | Clear No odor |
| 1 | 45.45 | 57.24 | 7.7 | 30 | 7/15/2014 | 1,660 | 4,360 | XXX | XXX | XXX | XXX | 224 | Clear No odor |
| 1 | 42.22 | 57.24 | 9.8 | 100 | 12/16/2014 | 13,800 | 24,600 | XXX | XXX | XXX | XXX | 1610 | Clear No odor |
| 1 | 42.19 | 57.24 | 9.8 | 100 | 1/30/2015 | 9,600 | 16,800 | XXX | XXX | XXX | XXX | 1110 | Clear No odor |
| 1 | 42.47 | 57.24 | 9.6 | 100 | 4/20/2015 | 6,700 | 12,700 | XXX | XXX | XXX | XXX | 629 | Clear No odor |
| 1 | 42.18 | 57.24 | 9.79 | 100 | 7/20/2015 | 5,900 | 10,800 | XXX | XXX | XXX | XXX | 497 | Clear No odor |
| 1 | 43.03 | 57.24 | 9.24 | 100 | 10/21/2015 | 5,800 | 11,000 | XXX | XXX | XXX | XXX | 621 | Clear No odor |
| 1 | 43.08 | 57.24 | 9.2 | 100 | 1/27/2016 | 6,400 | 11,000 | XXX | XXX | XXX | XXX | 644 | Clear No odor |
| 1 | 43.26 | 57.24 | 9.1 | 100 | 4/20/2016 | 5,400 | 9,600 | XXX | XXX | XXX | XXX | 586 | Clear No odor |
| 1 | 43.39 | 57.24 | 9.1 | 100 | 7/20/2016 | 5,000 | 9,960 | XXX | XXX | XXX | XXX | 615 | Clear No odor |
| 1 | 43.25 | 57.24 | 9.1 | 100 | 10/19/2016 | 4,600 | 8,180 | XXX | XXX | XXX | XXX | 765 | Clear No odor |
| 1 | 43.43 | 57.24 | 8.9 | 100 | 1/27/2017 | 3,260 | 7,210 | XXX | XXX | XXX | XXX | 755 | Clear No odor |
| 1 | 43.48 | 57.24 | 8.9 | 100 | 4/3/2017 | 3,750 | 6,550 | XXX | XXX | XXX | XXX | 678 | Clear No odor |
| 1 | 43.47 | 57.24 | 9 | 100 | 9/28/2017 | 3,500 | 7,160 | XXX | XXX | XXX | XXX | 690 | Clear No odor |
| 1 | 43.46 | 57.24 | 9 | 100 | 10/19/2017 | 5,200 | 9,020 | XXX | XXX | XXX | XXX | 332 | Clear No odor |
| 1 | 43.45 | 57.24 | 9 | 100 | 1/15/2018 | 2,530 | 5,310 | XXX | XXX | XXX | XXX | 632 | Clear No odor |
| 1 | 43.92 | 57.24 | 8.7 | 100 | 4/25/2018 | 2,330 | 4,980 | XXX | XXX | XXX | XXX | 528 | Clear No odor |
| 1 | 44.03 | 57.24 | 8.6 | 100 | 8/1/2018 | 2,250 | 4,620 | XXX | XXX | XXX | XXX | 493 | Clear No odor |
| 1 | 44.07 | 57.24 | 8.6 | 100 | 10/29/2018 | 2,220 | 3,900 | XXX | XXX | XXX | XXX | 469 | Clear No odor |
| 1 | 44.08 | 57.24 | 9 | 100 | 1/31/2019 | 1,870 | 3,600 | XXX | XXX | XXX | XXX | 408 | Clear No odor |
| 1 | 44.2 | 57.24 | 9 | 100 | 4/18/2019 | 1,720 | 3,610 | XXX | XXX | XXX | XXX | 461 | Clear No odor |
| 1 | 44.27 | 57.24 | 9 | 100 | 7/18/2019 | 1,640 | 3,570 | XXX | XXX | XXX | XXX | 495 | Clear No odor |
| 1 | 44.33 | 57.24 | 9 | 100 | 10/21/2019 | 1,500 | 3,070 | XXX | XXX | XXX | XXX | 452 | Clear No odor |
| 1 | 44.46 | 57.24 | 8.3 | 100 | 2/6/2020 | 1,540 | 3,080 | XXX | XXX | XXX | XXX | 391 | Clear No odor |
| 1 | 44.62 | 57.24 | 8.2 | 100 | 7/29/2020 | 1,540 | 3,130 | XXX | XXX | XXX | XXX | 360 | Clear No odor |

ROC - BD H-35 (AP-71)**Unit Letter H, Section 35, T22S, R37E**

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|----------------|-------------|-------------|---------------|-------------|-------|-------|---------|---------|---------------|---------------|---------|---------------|
| 1 | 44.86 | 57.24 | 8 | 100 | 2/4/2021 | 1,040 | 2,460 | XXX | XXX | XXX | XXX | 413 | Clear No odor |
| 1 | 44.9 | 57.24 | 8 | 100 | 4/19/2021 | 1,160 | 2,680 | XXX | XXX | XXX | XXX | 260 | Clear No odor |
| 1 | 44.96 | 57.24 | 8 | 100 | 8/2/2021 | 1,100 | 2,460 | XXX | XXX | XXX | XXX | 442 | Clear No odor |
| 1 | 44.98 | 57.24 | 8 | 100 | 10/14/2021 | 1,400 | 2,830 | XXX | XXX | XXX | XXX | 289 | Clear No odor |





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

February 22, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/09/21 12:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------------------|---------------------|----------------|
| Received: | 02/09/2021 | Sampling Date: | 02/04/2021 |
| Reported: | 02/22/2021 | Sampling Type: | Water |
| Project Name: | BD H-35 SWD | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | T22S R37E SEC35 H-LEA CTY., NM | | |

Sample ID: MONITOR WELL #1 (H210329-01)

| Chloride, SM4500Cl-B | | mg/L | | Analyzed By: GM | | | | | | |
|----------------------|---------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| | Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | | 1040 | 4.00 | 02/10/2021 | ND | 104 | 104 | 100 | 3.92 | |
| | Sulfate 375.4 | | | | | | | | | |
| | | mg/L | | Analyzed By: GM | | | | | | |
| | Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | | 413 | 83.3 | 02/12/2021 | ND | 19.9 | 99.6 | 20.0 | 9.15 | |
| | TDS 160.1 | | | | | | | | | |
| | | mg/L | | Analyzed By: AC | | | | | | |
| | Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | | 2460 | 5.00 | 02/15/2021 | ND | 804 | 80.4 | 1000 | 8.51 | |
| | | | | | | | | | | |

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



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

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 |

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

LAB Order ID # _____

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

| | | |
|---------------|-----|--------------------------------|
| Phone Results | Yes | No |
| Fax Results | Yes | No Additional Fax Number: |

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com



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

April 27, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/22/21 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------------------|---------------------|----------------|
| Received: | 04/22/2021 | Sampling Date: | 04/19/2021 |
| Reported: | 04/27/2021 | Sampling Type: | Water |
| Project Name: | BD H-35 SWD | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | T22S R37E SEC35 H-LEA CTY., NM | | |

Sample ID: MONITOR WELL #1 (H211040-01)

| Chloride, SM4500Cl-B | | mg/L | | Analyzed By: AC | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride* | 1160 | 4.00 | 04/26/2021 | ND | 104 | 104 | 100 | 0.00 | | |
| Sulfate 375.4 | | mg/L | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Sulfate* | 260 | 83.3 | 04/27/2021 | ND | 23.4 | 117 | 20.0 | 11.6 | QM-07 | |
| TDS 160.1 | | mg/L | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| TDS* | 2680 | 5.00 | 04/27/2021 | ND | 523 | 105 | 500 | 5.40 | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

| | |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| 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 |

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Caley D. Keene".

Caley D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

Page 4 of 4

| | | | | |
|--|--|--|--|-------------------------------|
| Company Name: RICE Operating Company | | BILL TO Company: RICE Operating Company | | PO# |
| Project Manager: Katie Jones | | Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 | | |
| Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 | | Phone#: (575) 393-9174 | | Fax#: (575)397-1471 |
| Phone #: (575) 393-9174 | | Fax #: (575) 397-1471 | | |
| Project #: | | Project Name: BD H-35 SWD | | |
| Project Location: T22S R37E Sec35 H ~ Lea County New Mexico | | Sampler Signature: Rozanne Johnson (575)631-9310 | | |

(Circle or Specify Method No.)

[illegible]

Turn Around Time ~ 24 Hours

| | | |
|---------------|-----|--------------------------------|
| Phone Results | Yes | No |
| Fax Results | Yes | No Additional Fax Number: |

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com



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

August 11, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 08/06/21 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------------------|---------------------|----------------|
| Received: | 08/06/2021 | Sampling Date: | 08/02/2021 |
| Reported: | 08/11/2021 | Sampling Type: | Water |
| Project Name: | BD H-35 SWD | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | T22S R37E SEC35 H-LEA CTY., NM | | |

Sample ID: MONITOR WELL #1 (H212103-01)

| Chloride, SM4500Cl-B | | mg/L | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|------|------------|---------------|-------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride* | 1100 | 4.00 | 08/09/2021 | ND | 104 | 104 | 100 | 0.00 | | |
| Sulfate 375.4 | | mg/L | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Sulfate* | 442 | 125 | 08/10/2021 | ND | 21.0 | 105 | 20.0 | 0.427 | | |
| TDS 160.1 | | mg/L | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| TDS* | 2460 | 5.00 | 08/09/2021 | ND | 542 | 108 | 500 | 1.76 | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

| | |
|-------|--|
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

101 East Marland - Hobbs, NM 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

| | | | | |
|--|--|--|--|--------------------------------|
| Company Name: RICE Operating Company | | BILL TO Company: RICE Operating Company | | PO# |
| Project Manager: Katie Jones | | Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 | | |
| Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 | | Phone#: (575) 393-9174 | | Fax#: (575) 397-1471 |
| Phone #: (575) 393-9174 | | Fax #: (575) 397-1471 | | |
| Project #: | | Project Name: BD H-35 SWD | | |
| Project Location: T22S R37E Sec35 H ~ Lea County New Mexico | | | | |
| Sampler Signature: <i>Rozanne Johnson</i> (575) 631-9310 | | | | |

ANALYSIS REQUEST

(Circle or Specify Method No.)

H212103
LAB #
(LAB USE ONLY)

FIELD CODE

(G)rab or (C)omp

CONTAINERS

MATRIX

PRESERVATIVE
METHOD

SAMPLING

WATER

SOIL

AIR

SLUDGE

HCL (2.40ml VOA)

HNO₃

NaHSO₄

H₂SO₄

ICE (1-1 Liter HDPE)

NONE

DATE (2021)

TIME

MTBE 8021B/602

BTEX 8021B/602

TPH 418.1/TX1005 / TX1005 Extended (C35)

PAH 8270C

Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7

TCLP Metals Ag As Ba Cd Cr Pb Se Hg

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC/MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

PCB's 8082/608

Pesticides 8081A/608

BOD, TSS, pH

Moisture Content

Anions (Cl, SO₄, CO₃, HCO₃)

Cations (Ca, Mg, Na, K)

Sulfates (SO₄)

Total Dissolved Solids

Chlorides

Turn Around Time ~ 24 Hours

| | | | | | |
|--|------------------------|-----------------------|--|------------------------|-----------------------|
| Relinquished by: <i>Rozanne Johnson</i> | Date: 8-6-21 | Time: 14:39 | Received by: <i>Rozanne Johnson</i> | Date: 8-6-21 | Time: 14:40 |
| Relinquished by: | Date: | Time: | Received By: (Laboratory Staff) | Date: | Time: |

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool Intact
Yes ☒ Yes ☒
No ☐ No ☐

CHECKED BY:

(Initials)

| | | |
|------------------------|-----|----|
| Phone Results | Yes | No |
| Fax Results | Yes | No |
| Additional Fax Number: | | |

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com



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

October 25, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/20/21 14:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

| | | | |
|-------------------|--------------------------------|---------------------|----------------|
| Received: | 10/20/2021 | Sampling Date: | 10/14/2021 |
| Reported: | 10/25/2021 | Sampling Type: | Water |
| Project Name: | BD H-35 SWD | Sampling Condition: | Cool & Intact |
| Project Number: | NONE GIVEN | Sample Received By: | Tamara Oldaker |
| Project Location: | T22S R37E SEC35 H-LEA CTY., NM | | |

Sample ID: MONITOR WELL #1 (H212955-01)

| Chloride, SM4500Cl-B | | mg/L | | Analyzed By: GM | | | | | | |
|----------------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|--|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Chloride* | 1400 | 4.00 | 10/21/2021 | ND | 100 | 100 | 100 | 0.00 | | |
| Sulfate 375.4 | | mg/L | | Analyzed By: AC | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| Sulfate* | 289 | 83.3 | 10/22/2021 | ND | 19.1 | 95.6 | 20.0 | 4.85 | | |
| TDS 160.1 | | mg/L | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier | |
| TDS* | 2830 | 5.00 | 10/21/2021 | ND | 868 | 86.8 | 1000 | 2.48 | | |

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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 |

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

| | | | | |
|--|--|--|--|--------------------------------|
| Company Name: RICE Operating Company | | BILL TO Company: RICE Operating Company | | PO#: |
| Project Manager: Katie Jones | | Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 | | |
| Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 | | Phone#: (575) 393-9174 | | Fax#: (575) 397-1471 |
| Phone #: (575) 393-9174 | | Fax #: (575) 397-1471 | | |
| Project #: | | Project Name: BD H-35 SWD | | |
| Project Location: T22S R37E Sec35 H ~ Lea County New Mexico | | Sampler Signature: Rozanne Johnson (575) 631-9310 | | |

[illegible]

| | | | | | |
|---|-------------------------|--------------------|------------------------------------|-----------------------|-------------------|
| Relinquished by: <u>Rozanne Johnson</u> | Date: <u>10/20/2021</u> | Time: <u>14:40</u> | Received by: <u>Lawrence McKee</u> | Date: <u>10-20-21</u> | Time: <u>1440</u> |
| Relinquished by: | Date: | Time: | Received By: (Laboratory Staff) | Date: | Time: |

Delivered By: (Circle One)

Sample Condition

| | Cool | Intact |
|-----|-------------------------------------|-------------------------------------|
| Yes | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| No | <input type="checkbox"/> | <input type="checkbox"/> |

CHECKED BY:

(Initials)
T.D.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

| | | |
|---------------|-----|---------------------------|
| Phone Results | Yes | No |
| Fax Results | Yes | No Additional Fax Number: |

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com

Sampler - UPS - Bus - Other:

Released to Imaging: 12/16/2022 12:52:19 PM

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 90536

CONDITIONS

| | |
|--|--|
| Operator: RICE OPERATING COMPANY 122 W Taylor Hobbs, NM 88240 | OGRID: 19174 |
| | Action Number: 90536 |
| | Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| nvelez | Review of 2021 Annual Groundwater Report: Content satisfactory 1. Continue sampling on a semi-annual schedule at a minimum 2. Submit next annual groundwater report to OCD no later than March 31, 2023. | 12/16/2022 |