L Peter Galusky, Jr PE

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April 1st, 2024

Nelson Velez

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87504

RE: **2023 Annual Report**

Rice Operating Company – Vacuum SWD Systen require ROC to submit Vacuum K-35-1 Boot (1R425-03): UL K, Sec 35 an official Completion NMOCD Application ID: 202305, Incident ID: nA

Sent by E-mail

Mr. Velez:

This letter summarizes remediation history and progre paragraphs (A) and calendar year, pursuant to NMOCD's approval email let 2. Include the most uplocation, site schematic and groundwater flow maps an to-date groundwater 3, respectively. Groundwater data are summarized in complete groundwater dataset for this site is given in t demonstrate closure depth at the site is approximately 62 ft below ground s

OCD granted termination of soil remediation requirem days from receipt of allowing for the cessation of groundwater withdrawals this notification.

monitoring must continue semi-annually at wells MW-2, MW-3, and MW-4.

REVIEWED

By Mike Buchanan at 9:13 am, Feb 26, 2025

Review of the 2023 Annual Report for Rice **Operating Company** (ROC)--Vacuum-K35-1: content is satisfactory.

1. Seeking closure will and Termination Report--if that hasn't already been submitted. The report will need to demonstrate all requirements in 19.15.30.19 NMAC

data and all relevant data for the site to status.

3. Please submit the report within sixty (60) ect over the past (Exhibit 1). Site lix, Figures 1, 2 and 4 and Table 1. The The groundwater

October 13th, 2011, groundwater

A Groundwater Recovery Notification was submitted to the NMOCD on September 4th, 2013, and NMOCD approved the notification on September 5th, 2013. Groundwater recovery began from RW-1 on September 13th, 2013. According to the NMOCD approved Groundwater Recovery Notification, ROC began sampling all the wells (MW-1, MW-2, MW-3, MW-4, and RW-1) on a semi-annual (twice a year) basis in 2013, and a quarterly basis in 2014. In 2020, NMOCD granted approval to temporarily cease groundwater recovery and reduce the sampling interval to semiannual. ROC subsequently resumed groundwater recovery and quarterly sampling in 2021.

A summary of results for our work in 2023 is given below.

Rice Operating Company Vacuum K-35-1 Boot Annual Report

- Approximately 39,468 barrels of chloride-affected groundwater have been withdrawn from a near-source recovery well (RW-1) from 2008 through 2023 resulting in the removal of an estimated 2,489 kg of chlorides. Recovered groundwater has been used for a beneficial use.
- The average annual groundwater chloride concentration in the near/at-source monitor well, MW-4, remained low at 60 mg/l in 2022 and 76 mg/l in 2023.
- The average annual groundwater chloride concentration in the down-gradient monitor well, MW-2 was essentially unchanged, 59 mg/l in 2022 versus 60 mg/l in 2023.
- The average annual groundwater chloride concentration in the down-gradient recovery well, RW-1, dropped from 159 mg/l in 2022 to 136 mg/l in 2023.
- The average annual groundwater chloride concentration in the up-gradient monitor well (MW-3) rose slightly from 83 mg/l in 2022 to 98 mg/l in 2023.

ROC submitted a Termination Request to NMOCD for this project on October 9th, 2023, based on eight consecutive quarters of monitoring well data below WQCC standards. Since then, two additional quarters of data below WQCC standards have been observed. The additional data obtained since then and reported here further buttress our rationale for requesting closure. NMOCD granted approval of the Termination Request on March 27th, 2024, pending further clarification from NMOCD. ROC will continue quarterly groundwater sampling during 2024, as we await further clarification from NMOCD.

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

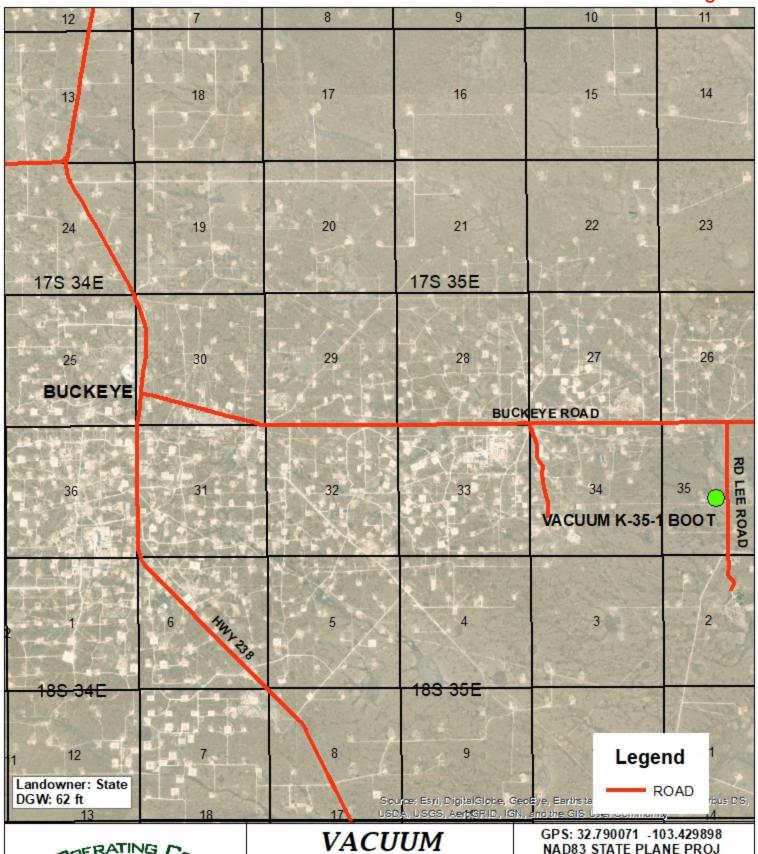
Please do not hesitate to contact either myself or Rice Operating Company if you have any questions or need additional information.

Sincerely,

L. Peter Galusky, Jr. P.E. NM Prof. Engineer No. 22561

Copy: Rice Operating Company. Attachments: as noted above.

Geographic Location





K-35-1 JCT BOOT

1R425-03

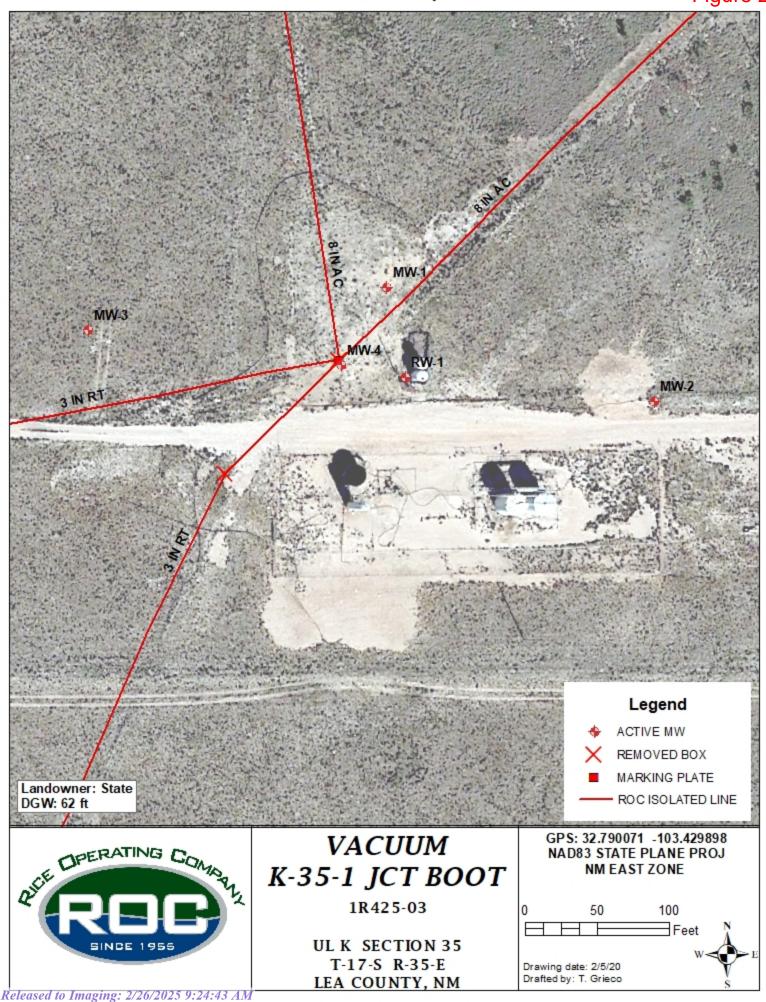
ULK SECTION 35 T-17-S R-35-E LEA COUNTY, NM

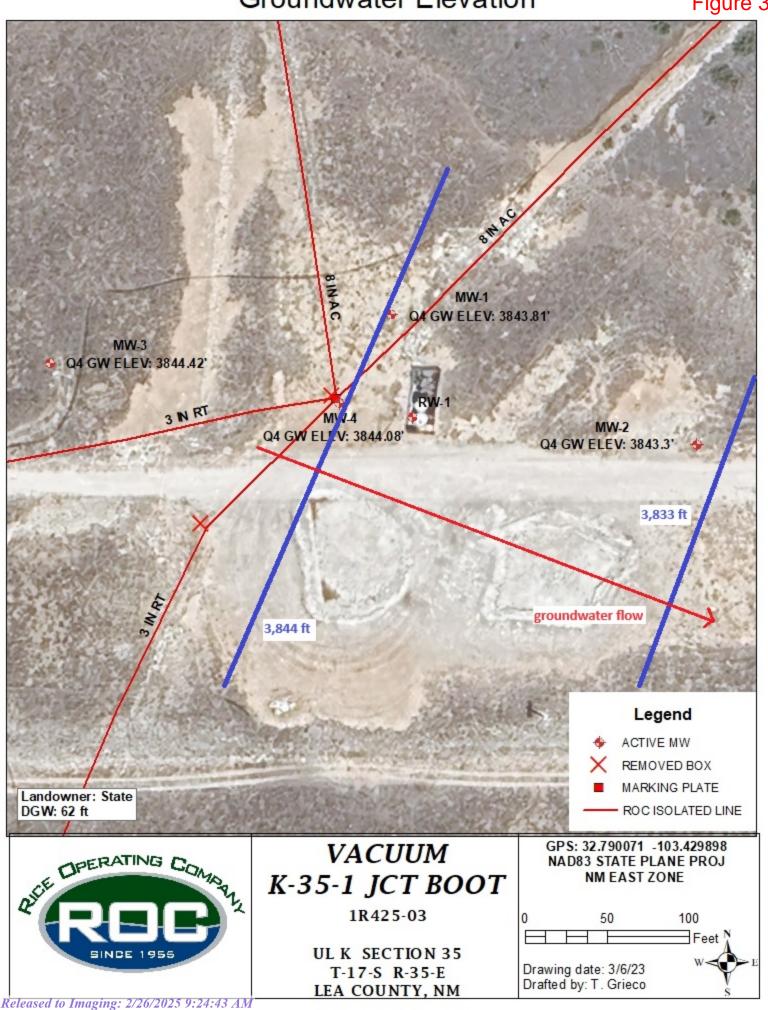
NAD83 STATE PLANE PROJ NM EAST ZONE

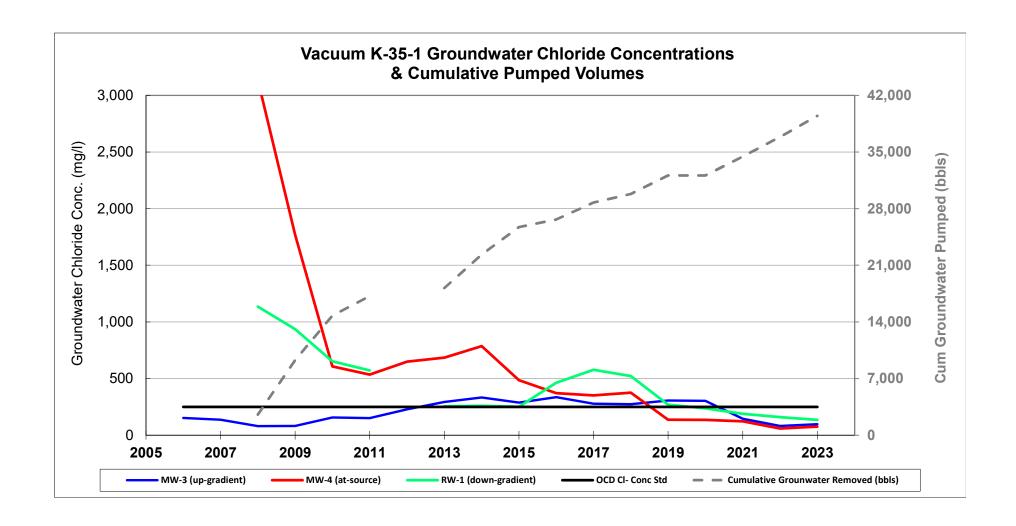


Drafted by: T. Grieco

Released to Imaging: 2/26/2025 9:24:43 AM







Vacuum K-35-1 Groundwater Data

Average Annual Groundwater Chloride Concentrations (mg/l) and Cumulative Groundwater Volume (bbls) and Chloride Mass Removed (kg)

| | | MW-2 | | | | | Cumulative | Cumulative |
|------|---------------|----------|-----------|-----------|-----------|----------|------------|---------------|
| | MW-1 | (down- | | | RW-1 | | Grounwater | Groundwater |
| | (downgradient | gradient | MW-3 (up- | MW-4 (at- | (down- | OCD CI- | Removed | Chloride Mass |
| year | well) | well) | gradient) | source) | gradient) | Conc Std | (bbls) | Removed (kg) |
| 2006 | 684 | 26 | 153 | | | 250 | | |
| 2007 | 1,127 | 27 | 138 | 5,988 | | 250 | | |
| 2008 | 1,330 | 43 | 81 | 3,135 | 1,135 | 250 | 2,551 | 467 |
| 2009 | 1,210 | 28 | 83 | 1,770 | 935 | 250 | 9,286 | 1,262 |
| 2010 | 795 | 32 | 157 | 608 | 653 | 250 | 14,779 | 1,651 |
| 2011 | 662 | 34 | 152 | 535 | 572 | 250 | 17,185 | 1,834 |
| 2012 | | 36 | 228 | 650 | | 250 | | |
| 2013 | 1,040 | 36 | 294 | 685 | 256 | 250 | 18,185 | 1,884 |
| 2014 | 733 | 36 | 333 | 788 | 260 | 250 | 22,320 | 2,058 |
| 2015 | 423 | 44 | 288 | 486 | 251 | 250 | 25,720 | 2,196 |
| 2016 | 630 | 46 | 337 | 372 | 463 | 250 | 26,660 | 2,238 |
| 2017 | 968 | 54 | 279 | 352 | 577 | 250 | 28,750 | 2,297 |
| 2018 | 1,305 | 39 | 274 | 376 | 523 | 250 | 29,820 | 2,317 |
| 2019 | 748 | 50 | 307 | 137 | 269 | 250 | 32,110 | 2,359 |
| 2020 | 358 | 40 | 304 | 136 | 238 | 250 | 32,110 | |
| 2021 | 314 | 58 | 145 | 122 | 189 | 250 | 34,445 | 2,405 |
| 2022 | 182 | 59 | 83 | 60 | 159 | 250 | 36,862 | 2,448 |
| 2023 | 174 | 60 | 98 | 76 | 136 | 250 | 39,468 | 2,489 |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|-------|----------------|-------|---------|---------|------------------|------------------|---------|---|
| 1 | 55.06 | 66.95 | 1.9 | 10 | 6/28/2006 | 508 | | 1,101 | <0.002 | <0.002 | <0.002 | <0.006 | 54.3 | |
| 1 | 55.15 | 66.95 | 1.9 | 10 | 10/19/2006 | 859 | 684 | 1,650 | <0.001 | <0.001 | <0.001 | <0.001 | 59.3 | Silt to clear with no odor. Field conductivity results have increased since last sampling |
| 1 | | | | | 2/21/2007 | 1,080 | | 2,160 | <0.001 | <0.001 | <0.001 | <0.001 | 77.9 | |
| 1 | 55.4 | 66.85 | 1.8 | 8 | 2/21/2007 | 1,080 | | 2,160 | <0.001 | <0.001 | <0.001 | <0.001 | 77.9 | Silt to clear No odor |
| 1 | 55.51 | 66.85 | 1.8 | 8 | 5/22/2007 | 923 | | 2,330 | <0.001 | <0.001 | <0.001 | <0.001 | 79.8 | Silt to clear No odor |
| 1 | 55.74 | 66.85 | 1.8 | 8 | 8/7/2007 | 1,150 | | 2,980 | <0.001 | <0.001 | <0.001 | <0.002 | 57.8 | Silt to clear No odor |
| 1 | 55.75 | 66.85 | 1.8 | 8 | 10/16/2007 | 1,400 | 1,138 | 2,634 | <0.001 | <0.001 | <0.001 | <0.001 | 70 | Silt to clear No odor |
| 1 | 55.92 | 66.8 | 1.7 | 8 | 1/30/2008 | 1,300 | | 2,540 | <0.001 | <0.001 | <0.001 | <0.003 | 69.8 | Silt to clear No odor |
| 1 | 55.91 | 66.8 | 1.7 | 8 | 4/30/2008 | 1,440 | | 2,800 | <0.002 | <0.002 | <0.002 | <0.006 | 78.6 | Silt to clear No odor |
| 1 | 56.21 | 66.8 | 1.7 | 8 | 7/30/2008 | 1,360 | | 2,680 | <0.001 | <0.001 | <0.001 | <0.003 | 39 | Silt to clear No odor |
| 1 | 56.36 | 66.8 | 1.7 | 8 | 11/10/2008 | 1,220 | 1,330 | 2,400 | <0.001 | <0.001 | <0.001 | <0.003 | 74.8 | Silt to clear No odor |
| 1 | 55.92 | 66.85 | 1.7 | 8 | 1/30/2009 | 1,280 | | 2,580 | <0.001 | <0.001 | <0.001 | <0.003 | 74 | Silt to clear No odor |
| 1 | 56.44 | 67.18 | 1.7 | 8 | 5/1/2009 | 1,420 | | 2,170 | <0.001 | <0.001 | < 0.001 | <0.003 | 68.8 | Silt to clear No odor |
| 1 | 56.61 | 67.18 | 1.7 | 6 | 8/4/2009 | 940 | | 2,250 | <0.001 | <0.001 | <0.001 | <0.003 | 70.1 | Silt to clear No odor |
| 1 | 56.84 | 67.18 | 1.7 | 6 | 10/20/2009 | 1,200 | 1,210 | 2,520 | <0.001 | <0.001 | <0.001 | <0.003 | 70.1 | Silt to clear No odor |
| 1 | 56.92 | 67.09 | 1.6 | 6 | 1/27/2010 | 1,180 | | 2,430 | <0.001 | <0.001 | <0.001 | <0.003 | 77.8 | Silt to clear No odor |
| 1 | 56.95 | 67.09 | 1.6 | 6 | 4/28/2010 | 460 | | 1,050 | <0.001 | <0.001 | <0.001 | <0.003 | 64.1 | Silt to clear No odor |
| 1 | 57.13 | 67.09 | 1.6 | 6 | 7/29/2010 | 980 | | 1,840 | <0.001 | <0.001 | <0.001 | <0.003 | 73.9 | Silt to clear No odor |
| 1 | 57.28 | 67.09 | 1.6 | 6 | 10/26/2010 | 560 | 795 | 1,330 | <0.001 | <0.001 | <0.001 | <0.003 | 81.2 | Silt to clear No odor |
| 1 | 57.24 | 67.12 | 1.6 | 6 | 2/16/2011 | 800 | | 1,750 | <0.001 | <0.001 | <0.001 | <0.003 | 68 | Silt to clear No odor |
| 1 | 57.15 | 67.12 | 1.6 | 6 | 6/1/2011 | 396 | | 965 | <0.001 | <0.001 | <0.001 | <0.003 | 69.4 | Silt to clear No odor |
| 1 | 57.21 | 67.12 | 1.6 | 6 | 8/30/2011 | 352 | | 888 | <0.001 | <0.001 | <0.001 | <0.003 | 75.7 | Silt to clear No odor |
| 1 | 57.19 | 67.12 | 1.6 | 6 | 12/1/2011 | 1,100 | 662 | 2,310 | <0.001 | <0.001 | <0.001 | <0.003 | 76.3 | Silt to clear No odor |
| 1 | 57.89 | 67.12 | 1.5 | 6 | 11/15/2013 | 1,040 | 1,040 | 2,250 | XXX | XXX | XXX | XXX | 69.4 | Silt to clear No odor |
| 1 | 57.98 | 67.12 | 1.5 | 6 | 3/4/2014 | 920 | | 2,030 | XXX | XXX | XXX | XXX | 79.9 | Silt to clear No odor |
| 1 | 58.08 | 67.12 | 1.4 | 6 | 6/3/2014 | 800 | | 1,720 | XXX | XXX | XXX | XXX | 55.2 | Silt to clear No odor |
| 1 | 58.16 | 67.12 | 1.4 | 6 | 8/28/2014 | 750 | | 1,840 | XXX | XXX | XXX | XXX | 73.3 | Silt to clear No odor |
| 1 | 57.75 | 67.12 | 1.5 | 6 | 11/21/2014 | 460 | 733 | 1,070 | XXX | XXX | XXX | XXX | 43.3 | Silt to clear No odor |
| 1 | 57.67 | 67.12 | 1.5 | 6 | 3/3/2015 | 499 | | 1,230 | XXX | XXX | XXX | XXX | 74.6 | Silt to clear No odor |
| 1 | 58.21 | 67.12 | 1.4 | 6 | 6/3/2015 | 470 | | 1,250 | XXX | XXX | XXX | XXX | 75.6 | Silt to clear No odor |
| 1 | 58.43 | 67.12 | 1.4 | 6 | 8/22/2015 | 292 | | 1,090 | XXX | XXX | XXX | XXX | 42.6 | Silt to clear No odor |
| 1 | 58.54 | 67.12 | 1.37 | 6 | 11/8/2015 | 432 | 423 | 1,210 | XXX | XXX | XXX | XXX | 76.3 | Silt to clear No odor |
| 1 | 58.53 | 67.12 | 1.4 | 6 | 2/26/2016 | 830 | | 1,660 | XXX | XXX | XXX | XXX | 74 | Silt to clear No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|-------|----------------|-------|---------|---------|------------------|------------------|---------|-----------------------|
| 1 | 58.58 | 67.12 | 1.4 | 6 | 5/21/2016 | 740 | | 2,040 | XXX | XXX | XXX | XXX | 68 | Silt to clear No odor |
| 1 | 58.51 | 67.12 | 1.4 | 6 | 9/10/2016 | 520 | | 1,560 | XXX | XXX | XXX | XXX | 71 | Silt to clear No odor |
| 1 | 58.74 | 67.12 | 1.3 | 6 | 11/10/2016 | 430 | 630 | 1,030 | XXX | XXX | XXX | XXX | 73 | Silt to clear No odor |
| 1 | 58.77 | 67.12 | 1.3 | 6 | 2/22/2017 | 850 | | 1,840 | XXX | XXX | XXX | XXX | 79 | Silt to clear No odor |
| 1 | 58.77 | 67.12 | 1.3 | 6 | 5/25/2017 | 960 | | 2,490 | XXX | XXX | XXX | XXX | 76 | Silt to clear No odor |
| 1 | 58.86 | 67.12 | 1.3 | 6 | 9/16/2017 | 1,040 | | 2,330 | XXX | XXX | XXX | XXX | 76 | Silt to clear No odor |
| 1 | 58.91 | 67.12 | 1.3 | 6 | 12/2/2017 | 1,020 | 968 | 2,240 | XXX | XXX | XXX | XXX | 77 | Silt to clear No odor |
| 1 | 58.94 | 67.12 | 1.3 | 6 | 2/28/2018 | 1,300 | | 2,310 | XXX | XXX | XXX | XXX | 77.8 | Silt to clear No odor |
| 1 | 59.05 | 67.12 | 1.3 | 6 | 5/15/2018 | 1,300 | | 2,670 | XXX | XXX | XXX | XXX | 94 | Silt to clear No odor |
| 1 | 59.28 | 67.12 | 1.3 | 6 | 9/8/2018 | 1,120 | | 2,640 | XXX | XXX | XXX | XXX | 77.5 | Silt to clear No odor |
| 1 | 59.58 | 67.12 | 1.2 | 6 | 11/13/2018 | 1,500 | 1,305 | 2,340 | XXX | XXX | XXX | XXX | 73 | Silt to clear No odor |
| 1 | 59.95 | 67.12 | 1.1 | 6 | 3/6/2019 | 870 | | 1,840 | XXX | XXX | XXX | XXX | 72 | Silt to clear No odor |
| 1 | 59.93 | 67.12 | 1.2 | 6 | 5/29/2019 | 900 | | 2,270 | XXX | XXX | XXX | XXX | 69 | Silt to clear No odor |
| 1 | 60.28 | 67.12 | 1.1 | 6 | 9/6/2019 | 640 | | 1,660 | XXX | XXX | XXX | XXX | 73 | Silt to clear No odor |
| 1 | 60.26 | 67.12 | 1.1 | 6 | 11/16/2019 | 580 | 748 | 1,230 | XXX | XXX | XXX | XXX | 66 | Silt to clear No odor |
| 1 | 60.28 | 67.12 | 1.1 | 6 | 3/7/2020 | 328 | | 824 | XXX | XXX | XXX | XXX | 71.8 | Silt to clear No odor |
| 1 | 60.43 | 67.12 | 1.1 | 6 | 9/12/2020 | 388 | 358 | 982 | XXX | XXX | XXX | XXX | 57.8 | Silt to clear No odor |
| 1 | 61.12 | 67.12 | 1 | 6 | 3/13/2021 | 352 | | 909 | XXX | XXX | XXX | XXX | 61.4 | Silt to clear No odor |
| 1 | 61.65 | 67.12 | 0.9 | 6 | 6/19/2021 | 660 | | 1,430 | XXX | XXX | XXX | XXX | 75.8 | Silt to clear No odor |
| 1 | 62.12 | 67.12 | 0.8 | 6 | 9/11/2021 | 88 | | 474 | XXX | XXX | XXX | XXX | 72 | Silt to clear No odor |
| 1 | 62.12 | 67.12 | 0.8 | 6 | 11/15/2021 | 156 | 314 | 523 | XXX | XXX | XXX | XXX | 77.5 | Silt to clear No odor |
| 1 | 61.74 | 67.12 | 0.9 | 6 | 3/11/2022 | 192 | | 570 | XXX | XXX | XXX | XXX | 56.2 | Silt to clear No odor |
| 1 | 61.63 | 67.12 | 0.9 | 6 | 6/8/2022 | 168 | | 542 | XXX | XXX | XXX | XXX | 64.2 | Silt to clear No odor |
| 1 | 61.76 | 67.12 | 0.9 | 6 | 9/12/2022 | 156 | | 535 | XXX | XXX | XXX | XXX | 63.2 | Silt to clear No odor |
| 1 | 62.24 | 67.12 | 0.8 | 6 | 12/5/2022 | 212 | 182 | 632 | XXX | XXX | XXX | XXX | 31 | Silt to clear No odor |
| 1 | 62.34 | 67.12 | 0.8 | 6 | 3/15/2023 | 144 | | 616 | XXX | XXX | XXX | XXX | 63.8 | Silt to clear No odor |
| 1 | 62.39 | 67.12 | 0.8 | 6 | 6/7/2023 | 220 | | 702 | XXX | XXX | XXX | XXX | 62.8 | Silt to clear No odor |
| 1 | 62.19 | 67.12 | 0.8 | 5 | 9/13/2023 | 156 | | 604 | XXX | XXX | XXX | XXX | 71.5 | Silt to clear No odor |
| 1 | 62.09 | 67.12 | 0.8 | 6 | 10/14/2023 | 176 | 174 | 684 | XXX | XXX | XXX | XXX | 71.3 | Silt to clear No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| | Depth to | Total | Well | Volume | | | ann. | | | | Ethyl | Total | | |
|----|----------|-------|--------|--------|-------------|----|--------|-----|---------------|---------------|---------------|---------------|---------|--|
| MW | Water | Depth | Volume | Purged | Sample Date | Cl | avg Cl | TDS | Benzene | Toluene | Benzene | Xylenes | Sulfate | Comments |
| | | · | | | | | | | | | | | | |
| 2 | 54.51 | 65.2 | 1.7 | 10 | 10/19/2006 | 26 | 26 | 354 | <0.001 | <0.001 | <0.001 | <0.001 | 61.9 | Clear some sand with no odor |
| 2 | 54.75 | 65.45 | 1.7 | 8 | 2/21/2007 | 29 | | 348 | <0.001 | <0.001 | <0.001 | <0.001 | 59.2 | clear some sand with no odor |
| 2 | 54.86 | 65.45 | 1.7 | 8 | 5/22/2007 | 25 | | 376 | <0.001 | <0.001 | <0.001 | <0.001 | 47.9 | clear some sand with no odor |
| 2 | 55.12 | 65.45 | 1.7 | 8 | 8/7/2007 | 27 | | 354 | <0.001 | <0.001 | <0.001 | <0.002 | 54.2 | Clear Some Sand No Odor |
| | | | | | | | | | | | | | | RISER AND PAD DISPLACED DEPTH |
| 2 | XXX | XXX | XXX | 8 | 10/16/2007 | 28 | 27 | 382 | <0.001 | <0.001 | <0.001 | <0.003 | 59.4 | READINGS NOT ACCURATE Clear some |
| | | | | | | | | | | | | | | sand No odor |
| 2 | xxx | XXX | XXX | 8 | 1/30/2008 | 80 | | 418 | <0.001 | <0.001 | <0.001 | <0.003 | 72.9 | Clear some sand No odor Well casing |
| | | | | 0 | 1/30/2008 | 80 | | 410 | \0.001 | ₹0.001 | \0.001 | \0.003 | 72.3 | has been displaced |
| 2 | 56.1 | 65.45 | 1.5 | 8 | 4/30/2008 | 32 | | 417 | <0.002 | <0.002 | <0.002 | <0.006 | 64.7 | Clear some sand No odor Well casing is |
| | 30.1 | 03.43 | 1.5 | 0 | 4/30/2008 | 32 | | 417 | \0.002 | \0.002 | \0.002 | \0.000 | 04.7 | displaced |
| 2 | 56.34 | 65.45 | 1.5 | 8 | 7/30/2008 | 32 | | 336 | <0.001 | <0.001 | <0.001 | <0.003 | 67 | Clear some sand No odor |
| 2 | 56.59 | 64.45 | 1.4 | 8 | 11/10/2008 | 28 | 43 | 397 | <0.001 | <0.001 | <0.001 | <0.003 | 69.4 | Clear some sand No odor |
| 2 | 56.58 | 65.39 | 1.4 | 8 | 1/30/2009 | 28 | | 379 | <0.001 | <0.001 | <0.001 | <0.003 | 60 | Clear some sand No odor |
| 2 | 56.57 | 65.61 | 1.4 | 8 | 5/1/2009 | 28 | | 299 | <0.001 | <0.001 | <0.001 | <0.003 | 60.5 | Clear some sand No odor |
| 2 | 56.84 | 65.61 | 1.4 | 6 | 8/4/2009 | 28 | | 411 | <0.001 | <0.001 | <0.001 | <0.003 | 58.6 | Clear some sand No odor |
| 2 | 56.99 | 65.61 | 1.4 | 6 | 10/20/2009 | 28 | 28 | 406 | <0.001 | <0.001 | <0.001 | <0.003 | 58.6 | Clear some sand No odor |
| 2 | 57.1 | 65.6 | 1.4 | 6 | 1/27/2010 | 32 | | 372 | <0.001 | <0.001 | <0.001 | <0.003 | 74.1 | Clear some sand No odor |
| 2 | 57.13 | 65.6 | 1.4 | 6 | 4/28/2010 | 32 | | 396 | <0.001 | <0.001 | <0.001 | <0.003 | 75.8 | Clear pumping some sand No odor |
| 2 | 57.22 | 65.6 | 1.3 | 6 | 7/29/2010 | 32 | | 423 | <0.001 | <0.001 | <0.001 | <0.003 | 64.2 | Clear some sand No odor |
| 2 | 57.36 | 65.6 | 1.3 | 6 | 10/26/2010 | 32 | 32 | 386 | <0.001 | <0.001 | <0.001 | <0.003 | 69.1 | Clear some sand No odor |
| 2 | 57.44 | 65.85 | 1.3 | 6 | 2/16/2011 | 32 | | 407 | <0.001 | <0.001 | <0.001 | <0.003 | 57 | Clear some sand No odor |
| 2 | 57.38 | 65.85 | 1.4 | 6 | 6/1/2011 | 32 | | 383 | <0.001 | <0.001 | <0.001 | <0.003 | 61.6 | Clear some sand No odor |
| 2 | 57.41 | 65.85 | 1.4 | 6 | 8/30/2011 | 32 | | 362 | <0.001 | <0.001 | <0.001 | <0.003 | 59.2 | Clear some sand No odor |
| 2 | 57.51 | 65.85 | 1.3 | 6 | 12/1/2011 | 40 | 34 | 391 | <0.001 | <0.001 | <0.001 | <0.003 | 70.3 | Clear some sand No odor |
| 2 | 57.74 | 65.85 | 1.3 | 6 | 5/29/2012 | 36 | | 434 | XXX | XXX | XXX | XXX | 65.7 | Clear some sand No odor |
| 2 | 57.92 | 65.85 | 1.3 | 6 | 11/15/2012 | 36 | 36 | 389 | XXX | XXX | XXX | XXX | 60.5 | Clear some sand No odor |
| 2 | 57.9 | 65.85 | 1.3 | 6 | 5/28/2013 | 36 | | 424 | XXX | XXX | XXX | XXX | 66.1 | Clear some sand No odor |
| 2 | 58.09 | 65.85 | 1.2 | 6 | 11/15/2013 | 36 | 36 | 408 | XXX | XXX | XXX | XXX | 62.2 | Clear some sand No odor |
| 2 | 58.19 | 65.85 | 1.2 | 6 | 3/4/2014 | 32 | | 520 | XXX | XXX | XXX | XXX | 36.6 | Clear some sand No odor |
| 2 | 58.26 | 65.85 | 1.2 | 6 | 6/3/2014 | 36 | | 280 | XXX | XXX | XXX | XXX | 53.2 | Clear some sand No odor |
| 2 | 58.34 | 65.85 | 1.2 | 6 | 8/28/2014 | 44 | | 432 | XXX | XXX | XXX | XXX | 56.1 | Clear some sand No odor |
| 2 | 57.95 | 65.85 | 1.3 | 6 | 11/21/2014 | 32 | 36 | 346 | XXX | XXX | XXX | XXX | 47.8 | Clear some sand No odor |
| 2 | 57.9 | 65.85 | 1.3 | 6 | 3/3/2015 | 40 | | 372 | XXX | XXX | XXX | XXX | 45.4 | Clear some sand No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|----|----------------|-----|---------|---------|------------------|------------------|---------|-------------------------|
| 2 | 58.28 | 65.85 | 1.2 | 6 | 6/3/2015 | 60 | | 450 | XXX | XXX | XXX | XXX | 29.8 | Clear some sand No odor |
| 2 | 58.59 | 65.85 | 1.2 | 6 | 8/22/2015 | 36 | | 436 | XXX | XXX | XXX | XXX | 41.2 | Clear some sand No odor |
| 2 | 58.66 | 65.85 | 1.15 | 6 | 11/8/2015 | 40 | 44 | 436 | XXX | XXX | XXX | XXX | 57.1 | Clear some sand No odor |
| 2 | 58.75 | 65.85 | 1.1 | 6 | 2/26/2016 | 48 | | 450 | XXX | XXX | XXX | XXX | 60.6 | Clear some sand No odor |
| 2 | 58.79 | 65.85 | 1.4 | 6 | 5/21/2016 | 32 | | 354 | XXX | XXX | XXX | XXX | 56.6 | Clear some sand No odor |
| 2 | 58.78 | 65.85 | 1.4 | 6 | 9/10/2016 | 36 | | 420 | XXX | XXX | XXX | XXX | 50 | Clear some sand No odor |
| 2 | 58.95 | 65.85 | 1.1 | 6 | 11/10/2016 | 68 | 46 | 444 | XXX | XXX | XXX | XXX | 32 | Clear some sand No odor |
| 2 | 58.98 | 65.85 | 1.1 | 6 | 2/22/2017 | 40 | | 414 | XXX | XXX | XXX | XXX | 59 | Clear some sand No odor |
| 2 | 58.97 | 65.85 | 1.1 | 6 | 5/25/2017 | 84 | | 586 | XXX | XXX | XXX | XXX | 53 | Clear some sand No odor |
| 2 | 59.1 | 65.85 | 1.1 | 6 | 9/16/2017 | 60 | | 458 | XXX | XXX | XXX | XXX | 75 | Clear some sand No odor |
| 2 | 59.14 | 65.85 | 1.1 | 6 | 12/2/2017 | 32 | 54 | 390 | XXX | XXX | XXX | XXX | 59 | Clear some sand No odor |
| 2 | 59.2 | 65.85 | 1.1 | 6 | 2/28/2018 | 44 | | 228 | XXX | XXX | XXX | XXX | 62.5 | Clear some sand No odor |
| 2 | 59.3 | 65.85 | 1 | 6 | 5/15/2018 | 36 | | 208 | XXX | XXX | XXX | XXX | 68.4 | Clear some sand No odor |
| 2 | 59.45 | 65.85 | 1 | 6 | 9/8/2018 | 36 | | 376 | XXX | XXX | XXX | XXX | 63.2 | Clear some sand No odor |
| 2 | 59.72 | 65.85 | 1 | 6 | 11/13/2018 | 40 | 39 | 258 | XXX | XXX | XXX | XXX | 57.6 | Clear some sand No odor |
| 2 | 60.1 | 65.85 | 0.9 | 6 | 3/6/2019 | 44 | | 436 | XXX | XXX | XXX | XXX | 62 | Clear some sand No odor |
| 2 | 60.11 | 65.85 | 0.9 | 6 | 5/29/2019 | 32 | | 453 | XXX | XXX | XXX | XXX | 63 | Clear some sand No odor |
| 2 | 60.31 | 65.85 | 0.9 | 6 | 9/6/2019 | 48 | | 504 | XXX | XXX | XXX | XXX | 53 | Clear some sand No odor |
| 2 | 60.44 | 65.85 | 0.9 | 6 | 11/16/2019 | 76 | 50 | 485 | XXX | XXX | XXX | XXX | 71 | Clear some sand No odor |
| 2 | 60.42 | 65.85 | 0.9 | 6 | 3/7/2020 | 40 | | 422 | XXX | XXX | XXX | XXX | 57.1 | Clear some sand No odor |
| 2 | 60.6 | 65.85 | 0.8 | 6 | 9/12/2020 | 40 | 40 | 414 | XXX | XXX | XXX | XXX | 49.7 | Clear some sand No odor |
| 2 | 61.2 | 65.85 | 0.7 | 6 | 3/13/2021 | 76 | | 431 | XXX | XXX | XXX | XXX | 62.1 | Clear some sand No odor |
| 2 | 61.69 | 65.85 | 0.7 | 6 | 6/19/2021 | 56 | | 416 | XXX | XXX | XXX | XXX | 51.4 | Clear some sand No odor |
| 2 | 62.06 | 65.85 | 0.6 | 6 | 9/11/2021 | 52 | | 467 | XXX | XXX | XXX | XXX | 50.8 | Clear some sand No odor |
| 2 | 62.06 | 65.85 | 0.6 | 6 | 11/15/2021 | 48 | 58 | 382 | XXX | XXX | XXX | XXX | 84.5 | Clear some sand No odor |
| 2 | 61.79 | 65.85 | 0.6 | 6 | 3/11/2022 | 56 | | 384 | XXX | XXX | XXX | XXX | 68.2 | Clear some sand No odor |
| 2 | 61.76 | 65.85 | 0.7 | 6 | 6/8/2022 | 52 | | 436 | XXX | XXX | XXX | XXX | 71.4 | Clear some sand No odor |
| 2 | 61.81 | 65.85 | 0.6 | 6 | 9/12/2022 | 60 | | 408 | XXX | XXX | XXX | XXX | 49.5 | Clear some sand No odor |
| 2 | 62.3 | 65.85 | 0.6 | 6 | 12/5/2022 | 68 | 59 | 431 | XXX | XXX | XXX | XXX | 66.7 | Clear some sand No odor |
| 2 | 62.45 | 65.85 | 0.5 | 6 | 3/15/2023 | 60 | | 363 | XXX | XXX | XXX | XXX | 64.6 | Clear some sand No odor |
| 2 | 62.51 | 65.85 | 0.5 | 6 | 6/7/2023 | 60 | | 434 | XXX | XXX | XXX | XXX | 71.8 | Clear some sand No odor |
| 2 | 62.3 | 65.85 | 0.6 | 5 | 9/13/2023 | 60 | | 375 | XXX | XXX | XXX | XXX | 68.6 | Clear some sand No odor |
| 2 | 62.2 | 65.85 | 0.6 | 5 | 10/14/2023 | 60 | 60 | 408 | XXX | XXX | XXX | XXX | 71.2 | Clear some sand No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|-----|----------------|-------|---------|---------|------------------|------------------|---------|----------------------------|
| 3 | 57.05 | 67.6 | 1.7 | 10 | 6/28/2006 | 140 | | 540 | <0.002 | <0.002 | <0.002 | <0.002 | 117 | |
| 3 | 57.12 | 67.6 | 1.7 | 10 | 10/19/2006 | 165 | 153 | 570 | <0.001 | <0.001 | <0.001 | <0.001 | 75.8 | Clear some sand No odor |
| 3 | 57.35 | 66.72 | 1.5 | 8 | 2/21/2007 | 178 | | 550 | <0.001 | <0.001 | <0.001 | <0.001 | 82 | Clear some sand No odor |
| 3 | 57.46 | 66.72 | 1.5 | 8 | 5/22/2007 | 128 | | 530 | <0.001 | <0.001 | <0.001 | <0.001 | 61.4 | Clear some sand No odor |
| 3 | 57.75 | 66.72 | 1.4 | 8 | 8/7/2007 | 134 | | 536 | <0.001 | <0.001 | <0.001 | <0.001 | 69 | Clear some sand No odor |
| 3 | 57.76 | 66.72 | 1.4 | 8 | 10/16/2007 | 112 | 138 | 537 | <0.001 | <0.001 | <0.001 | <0.003 | 83.1 | Clear some sand No odor |
| 3 | 57.92 | 66.75 | 1.4 | 8 | 1/30/2008 | 88 | | 510 | <0.001 | <0.001 | <0.001 | <0.003 | 79.2 | Some sand to clear No odor |
| 3 | 57.88 | 66.75 | 1.4 | 8 | 4/30/2008 | 84 | | 543 | <0.002 | <0.002 | <0.002 | <0.006 | 88.4 | Clear some sand No odor |
| 3 | 58.17 | 66.75 | 1.4 | 8 | 7/30/2008 | 76 | | 418 | <0.001 | <0.001 | <0.001 | <0.003 | 77 | Clear some sand No odor |
| 3 | 58.4 | 66.75 | 1.3 | 8 | 11/10/2008 | 76 | 81 | 448 | <0.001 | <0.001 | <0.001 | <0.003 | 81.4 | Clear some sand No odor |
| 3 | 58.46 | 66.42 | 1.3 | 8 | 1/30/2009 | 76 | | 442 | <0.001 | <0.001 | <0.001 | <0.003 | 68.7 | Clear some sand No odor |
| 3 | 58.45 | 66.42 | 1.3 | 8 | 5/1/2009 | 84 | | 477 | <0.001 | <0.001 | <0.001 | <0.003 | 64 | Clear some sand No odor |
| 3 | 58.6 | 66.42 | 1.3 | 8 | 8/4/2009 | 72 | | 424 | <0.001 | <0.001 | <0.001 | <0.003 | 63.8 | Clear some sand No odor |
| 3 | 58.88 | 66.42 | 1.2 | 8 | 10/20/2009 | 100 | 83 | 466 | <0.001 | <0.001 | <0.001 | <0.003 | 59.5 | Clear some sand No odor |
| 3 | 58.93 | 66.41 | 1.2 | 8 | 4/28/2010 | 152 | | 534 | <0.001 | <0.001 | <0.001 | <0.003 | 74.7 | Clear some sand No odor |
| 3 | 58.92 | 66.41 | 1.2 | 8 | 3/27/2010 | 128 | | 469 | <0.001 | <0.001 | <0.001 | <0.003 | 68 | Clear some sand No odor |
| 3 | 59.18 | 66.41 | 1.2 | 8 | 7/29/2010 | 184 | | 608 | <0.001 | <0.001 | <0.001 | <0.003 | 84.5 | Clear some sand No odor |
| 3 | 59.35 | 66.41 | 1.1 | 8 | 10/26/2010 | 164 | 157 | 621 | <0.001 | <0.001 | <0.001 | <0.003 | 95.4 | Clear some sand No odor |
| 3 | 59.24 | 66.83 | 1.2 | 8 | 2/16/2011 | 128 | | 522 | <0.001 | <0.001 | <0.001 | <0.003 | 63.7 | Clear some sand No odor |
| 3 | 59.12 | 66.83 | 1.2 | 8 | 6/1/2011 | 148 | | 539 | <0.001 | <0.001 | <0.001 | <0.003 | 91.1 | Clear some sand No odor |
| 3 | 59.19 | 66.83 | 1.2 | 8 | 8/30/2011 | 156 | | 560 | <0.001 | <0.001 | <0.001 | <0.003 | 91.7 | Clear some sand No odor |
| 3 | 59.2 | 66.83 | 1.2 | 8 | 12/1/2011 | 176 | 152 | 595 | <0.001 | <0.001 | <0.001 | <0.003 | 92.4 | Clear some sand No odor |
| 3 | 59.55 | 66.83 | 1.2 | 8 | 5/29/2012 | 204 | | 676 | XXX | XXX | XXX | XXX | 71.9 | Clear some sand No odor |
| 3 | 59.63 | 66.83 | 1.2 | 8 | 11/15/2012 | 252 | 228 | 742 | XXX | XXX | XXX | XXX | 91.2 | Clear some sand No odor |
| 3 | 59.68 | 66.83 | 1.1 | 8 | 5/28/2013 | 280 | | 823 | XXX | XXX | XXX | XXX | 81.7 | Clear some sand No odor |
| 3 | 59.82 | 66.83 | 1.1 | 8 | 11/15/2013 | 308 | 294 | 856 | XXX | XXX | XXX | XXX | 74 | Clear some sand No odor |
| 3 | 59.98 | 66.83 | 1.1 | 8 | 3/4/2014 | 312 | | 790 | XXX | XXX | XXX | XXX | 96 | Clear some sand No odor |
| 3 | 60.07 | 66.83 | 1.1 | 8 | 6/3/2014 | 356 | | 910 | XXX | XXX | XXX | XXX | 96.6 | Clear some sand No odor |
| 3 | 60.08 | 66.83 | 1.1 | 8 | 8/28/2014 | 328 | | 926 | XXX | XXX | XXX | XXX | 84 | Clear some sand No odor |
| 3 | 59.74 | 66.83 | 1.1 | 8 | 11/21/2014 | 336 | 333 | 764 | XXX | XXX | XXX | XXX | 74.4 | Clear some sand No odor |
| 3 | 59.67 | 66.83 | 1.1 | 8 | 3/3/2015 | 304 | | 848 | XXX | XXX | XXX | XXX | 89 | Clear some sand No odor |
| 3 | 60.2 | 66.83 | 1.1 | 8 | 6/3/2015 | 244 | | 1,040 | XXX | XXX | XXX | XXX | 42.5 | Clear some sand No odor |
| 3 | 60.44 | 66.83 | 1 | 8 | 8/22/2015 | 284 | | 964 | XXX | XXX | XXX | XXX | 41.8 | Clear some sand No odor |
| 3 | 60.62 | 66.83 | 0.99 | 8 | 11/8/2015 | 320 | 288 | 1,090 | XXX | XXX | XXX | XXX | 48.1 | Clear some sand No odor |
| 3 | 60.58 | 66.83 | 1 | 8 | 2/26/2016 | 430 | | 1,110 | XXX | XXX | XXX | XXX | 76 | Clear some sand No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|-----|----------------|-------|---------|---------|------------------|------------------|---------|-------------------------|
| 3 | 60.62 | 66.83 | 1 | 8 | 5/21/2016 | 284 | | 1,110 | XXX | XXX | XXX | XXX | 30.4 | Clear some sand No odor |
| 3 | 60.64 | 66.83 | 1 | 8 | 9/10/2016 | 332 | | 964 | XXX | XXX | XXX | XXX | 64 | Clear some sand No odor |
| 3 | 60.78 | 66.83 | 1 | 8 | 11/10/2016 | 300 | 337 | 852 | XXX | XXX | XXX | XXX | 93 | Clear some sand No odor |
| 3 | 60.74 | 66.83 | 1 | 8 | 2/22/2017 | 280 | | 1,110 | XXX | XXX | XXX | XXX | 71 | Clear some sand No odor |
| 3 | 60.75 | 66.83 | 1 | 8 | 5/25/2017 | 296 | | 886 | XXX | XXX | XXX | XXX | 84 | Clear some sand No odor |
| 3 | 60.85 | 66.83 | 1 | 8 | 9/16/2017 | 320 | | 898 | XXX | XXX | XXX | XXX | 99 | Clear some sand No odor |
| 3 | 60.89 | 66.83 | 1 | 8 | 12/2/2017 | 220 | 279 | 926 | XXX | XXX | XXX | XXX | 56 | Clear some sand No odor |
| 3 | 60.92 | 66.83 | 0.9 | 8 | 2/28/2018 | 328 | | 700 | XXX | XXX | XXX | XXX | 123 | Clear some sand No odor |
| 3 | 61.03 | 66.83 | 0.9 | 8 | 5/15/2018 | 180 | | 468 | XXX | XXX | XXX | XXX | 56.2 | Clear some sand No odor |
| 3 | 61.23 | 66.83 | 0.9 | 8 | 9/8/2018 | 288 | | 816 | XXX | XXX | XXX | XXX | 118 | Clear some sand No odor |
| 3 | 61.64 | 66.83 | 0.8 | 8 | 11/13/2018 | 300 | 274 | 697 | XXX | XXX | XXX | XXX | 126 | Clear some sand No odor |
| 3 | 62.02 | 66.83 | 0.8 | 6 | 3/6/2019 | 324 | | 906 | XXX | XXX | XXX | XXX | 115 | Clear some sand No odor |
| 3 | 61.95 | 66.83 | 0.8 | 6 | 5/29/2019 | 312 | | 889 | XXX | XXX | XXX | XXX | 114 | Clear some sand No odor |
| 3 | 62.32 | 66.83 | 0.7 | 6 | 9/6/2019 | 320 | | 942 | XXX | XXX | XXX | XXX | 93 | Clear some sand No odor |
| 3 | 62.27 | 66.83 | 0.7 | 6 | 11/16/2019 | 272 | 307 | 833 | XXX | XXX | XXX | XXX | 162 | Clear some sand No odor |
| 3 | 60.23 | 66.83 | 1.1 | 6 | 3/7/2020 | 312 | | 810 | XXX | XXX | XXX | XXX | 97.8 | Clear some sand No odor |
| 3 | 62.51 | 66.83 | 0.7 | 6 | 9/12/2020 | 296 | 304 | 703 | XXX | XXX | XXX | XXX | 76.7 | Clear some sand No odor |
| 3 | 63.28 | 66.83 | 0.6 | 6 | 3/13/2021 | 224 | | 698 | XXX | XXX | XXX | XXX | 79.4 | Clear some sand No odor |
| 3 | 63.82 | 66.83 | 0.6 | 6 | 6/19/2021 | 148 | | 579 | XXX | XXX | XXX | XXX | 83.2 | Clear some sand No odor |
| 3 | 64.33 | 66.83 | 0.4 | 6 | 9/11/2021 | 116 | | 526 | XXX | XXX | XXX | XXX | 77.5 | Clear some sand No odor |
| 3 | 64.33 | 66.83 | 0.4 | 6 | 11/15/2021 | 92 | 145 | 459 | XXX | XXX | XXX | XXX | 88.2 | Clear some sand No odor |
| 3 | 63.78 | 66.83 | 0.5 | 6 | 3/11/2022 | 96 | | 445 | XXX | XXX | XXX | XXX | 70.1 | Clear some sand No odor |
| 3 | 63.6 | 66.83 | 0.5 | 6 | 6/8/2022 | 88 | | 428 | XXX | XXX | XXX | XXX | 74.2 | Clear some sand No odor |
| 3 | 63.77 | 66.83 | 0.5 | 6 | 9/12/2022 | 96 | | 467 | XXX | XXX | XXX | XXX | 68.2 | Clear some sand No odor |
| 3 | 64.26 | 66.83 | 0.4 | 6 | 12/5/2022 | 52 | 83 | 462 | XXX | XXX | XXX | XXX | 54.5 | Clear some sand No odor |
| 3 | 64.43 | 66.83 | 0.4 | 6 | 3/15/2023 | 68 | | 378 | XXX | XXX | XXX | XXX | 59.1 | Clear some sand No odor |
| 3 | 64.49 | 66.83 | 0.4 | 6 | 6/7/2023 | 96 | | 519 | XXX | XXX | XXX | XXX | 69.8 | Clear some sand No odor |
| 3 | 64.22 | 66.83 | 0.4 | 5 | 9/13/2023 | 132 | | 527 | XXX | XXX | XXX | XXX | 77.4 | Clear some sand No odor |
| 3 | 64.12 | 66.83 | 0.4 | 5 | 10/14/2023 | 96 | 98 | 557 | XXX | XXX | XXX | XXX | 59 | Clear some sand No odor |

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|-------|----------------|-------|---------|---------|------------------|------------------|---------|-------------------------|
| 4 | 57.59 | 68.33 | 1.7 | 8 | 2/21/2007 | 6,770 | | 9,320 | <0.001 | <0.001 | <0.001 | <0.001 | 178 | Clear some sand No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|-------|----------------|--------|---------|---------|------------------|------------------|---------|----------------------------|
| 4 | 58.16 | 68.33 | 1.6 | 10 | 5/22/2007 | 6,390 | | 10,400 | <0.001 | <0.001 | < 0.001 | <0.001 | 183 | Clear some sand No odor |
| 4 | 58.39 | 68.33 | 1.6 | 8 | 8/7/2007 | 6,790 | | 13,000 | <0.001 | <0.001 | <0.001 | <0.002 | 89.5 | Clear some sand No odor |
| 4 | 58.41 | 68.33 | 1.6 | 8 | 10/16/2007 | 4,000 | 5,988 | 7,420 | <0.001 | <0.001 | <0.001 | <0.003 | 91.4 | Clear some sand No odor |
| 4 | 58.56 | 68.35 | 1.6 | 8 | 1/30/2008 | 4,550 | | 8,260 | <0.001 | <0.001 | <0.001 | <0.003 | 89.9 | Some sand to clear No odor |
| 4 | 58.08 | 68.35 | 1.6 | 8 | 4/30/2008 | 3,450 | | 6,430 | <0.002 | <0.002 | <0.002 | <0.006 | 99.2 | Clear some sand No odor |
| 4 | 58.36 | 68.35 | 1.6 | 8 | 7/30/2008 | 2,580 | | 4,990 | <0.001 | <0.001 | <0.001 | <0.003 | 109 | Clear some sand No odor |
| 4 | 58.47 | 68.35 | 1.6 | 8 | 11/10/2008 | 1,960 | 3,135 | 3,860 | <0.001 | <0.001 | < 0.001 | <0.003 | 81.8 | Clear some sand No odor |
| 4 | 58.49 | 68.27 | 1.6 | 8 | 1/30/2009 | 2,080 | | 3,540 | <0.001 | <0.001 | <0.001 | <0.003 | 88.9 | Clear some sand No odor |
| 4 | 58.59 | 68.27 | 1.5 | 8 | 5/1/2009 | 2,300 | | 4,600 | <0.001 | <0.001 | < 0.001 | <0.003 | 74.5 | Clear some sand No odor |
| 4 | 58.73 | 68.27 | 1.5 | 6 | 8/4/2009 | 1,500 | | 2,960 | <0.001 | <0.001 | <0.001 | <0.003 | 75.8 | Clear some sand No odor |
| 4 | 58.89 | 68.27 | 1.5 | 6 | 10/20/2009 | 1,200 | 1,770 | 2,540 | <0.001 | <0.001 | <0.001 | <0.003 | 72.7 | Clear some sand No odor |
| 4 | 59.08 | 68.16 | 1.5 | 8 | 4/28/2010 | 460 | | 1,250 | <0.001 | <0.001 | <0.001 | <0.003 | 69.9 | Clear some sand No odor |
| 4 | 59.04 | 68.16 | 1.5 | 8 | 1/27/2010 | 800 | | 1,800 | <0.001 | <0.001 | <0.001 | <0.003 | 86 | Clear some sand No odor |
| 4 | 59.27 | 66.16 | 1.4 | 8 | 7/29/2010 | 650 | | 1,430 | <0.001 | <0.001 | <0.001 | <0.003 | 76.9 | Clear some sand No odor |
| 4 | 59.42 | 68.16 | 1.4 | 8 | 10/26/2010 | 520 | 608 | 1,300 | <0.001 | <0.001 | <0.001 | <0.003 | 75 | Clear some sand No odor |
| 4 | 59.15 | 68.15 | 1.4 | 8 | 2/16/2011 | 680 | | 1,600 | <0.001 | <0.001 | <0.001 | <0.003 | 72 | Clear some sand No odor |
| 4 | 59.19 | 68.15 | 1.4 | 8 | 6/1/2011 | 380 | | 941 | <0.001 | <0.001 | <0.001 | <0.003 | 69.1 | Clear some sand No odor |
| 4 | 59.35 | 68.15 | 1.4 | 8 | 8/30/2011 | 380 | | 908 | <0.001 | <0.001 | <0.001 | <0.003 | 71.8 | Clear some sand No odor |
| 4 | 59.32 | 68.15 | 1.4 | 8 | 12/1/2011 | 700 | 535 | 1,470 | <0.001 | <0.001 | <0.001 | <0.003 | 78.3 | Clear some sand No odor |
| 4 | 59.64 | 68.15 | 1.4 | 8 | 5/29/2012 | 610 | | 1,560 | XXX | XXX | XXX | XXX | 81.5 | Clear some sand No odor |
| 4 | 59.72 | 68.15 | 1.3 | 8 | 11/15/2012 | 690 | 650 | 1,660 | XXX | XXX | XXX | XXX | 80.6 | Clear some sand No odor |
| 4 | 59.83 | 68.15 | 1.3 | 8 | 5/28/2013 | 650 | | 1,550 | XXX | XXX | XXX | XXX | 71 | Clear some sand No odor |
| 4 | 59.99 | 68.15 | 1.3 | 8 | 11/15/2013 | 720 | 685 | 1,630 | XXX | XXX | XXX | XXX | 75.5 | Clear some sand No odor |
| 4 | 60.07 | 68.15 | 1.3 | 8 | 3/4/2014 | 870 | | 1,560 | XXX | XXX | XXX | XXX | 81.8 | Clear some sand No odor |
| 4 | 60.23 | 68.15 | 1.3 | 8 | 6/3/2014 | 810 | | 1,730 | XXX | XXX | XXX | XXX | 78.8 | Clear some sand No odor |
| 4 | 60.31 | 68.15 | 1.3 | 8 | 8/28/2014 | 830 | | 1,840 | XXX | XXX | XXX | XXX | 75.5 | Clear some sand No odor |
| 4 | 59.87 | 68.15 | 1.3 | 8 | 11/21/2014 | 640 | 788 | 1,350 | XXX | XXX | XXX | XXX | 67.5 | Clear some sand No odor |
| 4 | 59.79 | 68.15 | 1.3 | 8 | 3/3/2015 | 750 | | 1,770 | XXX | XXX | XXX | XXX | 50 | Clear some sand No odor |
| 4 | 60.35 | 68.15 | 1.2 | 8 | 6/3/2015 | 510 | | 1,210 | XXX | XXX | XXX | XXX | 71.6 | Clear some sand No odor |
| 4 | 60.55 | 68.15 | 1.2 | 8 | 8/22/2015 | 340 | | 1,220 | XXX | XXX | XXX | XXX | 49.4 | Clear some sand No odor |
| 4 | 60.68 | 68.15 | 1.2 | 8 | 11/8/2015 | 344 | 486 | 1,210 | XXX | XXX | XXX | XXX | 59.6 | Clear some sand No odor |
| 4 | 60.72 | 68.15 | 1.2 | 8 | 2/26/2016 | 440 | | 1,050 | XXX | XXX | XXX | XXX | 82 | Clear some sand No odor |
| 4 | 60.78 | 68.15 | 1.2 | 8 | 5/21/2016 | 280 | | 1,100 | XXX | XXX | XXX | XXX | 34.1 | Clear some sand No odor |
| 4 | 60.67 | 68.15 | 1.2 | 8 | 9/10/2016 | 336 | | 980 | XXX | XXX | XXX | XXX | 77 | Clear some sand No odor |
| 4 | 60.91 | 68.15 | 1.2 | 8 | 11/10/2016 | 430 | 372 | 1,150 | XXX | XXX | XXX | XXX | 69 | Clear some sand No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|-----|----------------|-------|---------|---------|------------------|------------------|---------|-------------------------|
| 4 | 60.9 | 68.15 | 1.2 | 8 | 2/22/2017 | 256 | | 1,010 | XXX | XXX | XXX | XXX | 56 | Clear some sand No odor |
| 4 | 60.91 | 68.15 | 1.2 | 8 | 5/25/2017 | 392 | | 974 | XXX | XXX | XXX | XXX | 63 | Clear some sand No odor |
| 4 | 61.01 | 68.15 | 1.1 | 8 | 9/16/2017 | 460 | | 1,240 | XXX | XXX | XXX | XXX | 79 | Clear some sand No odor |
| 4 | 61.05 | 68.15 | 1.1 | 8 | 12/2/2017 | 300 | 352 | 836 | XXX | XXX | XXX | XXX | 74 | Clear some sand No odor |
| 4 | 61.07 | 68.15 | 1.1 | 8 | 2/28/2018 | 320 | | 892 | XXX | XXX | XXX | XXX | 132 | Clear some sand No odor |
| 4 | 61.17 | 68.15 | 1.1 | 8 | 5/15/2018 | 228 | | 868 | XXX | XXX | XXX | XXX | 57.9 | Clear some sand No odor |
| 4 | 61.4 | 68.15 | 1.1 | 6 | 9/8/2018 | 610 | | 1,260 | XXX | XXX | XXX | XXX | 74 | Clear some sand No odor |
| 4 | 61.69 | 68.15 | 1 | 6 | 11/13/2018 | 344 | 376 | 713 | XXX | XXX | XXX | XXX | 76 | Clear some sand No odor |
| 4 | 62.07 | 68.15 | 1 | 6 | 3/6/2019 | 128 | | 496 | XXX | XXX | XXX | XXX | 74 | Clear some sand No odor |
| 4 | 62.08 | 68.15 | 1 | 6 | 5/29/2019 | 132 | | 599 | XXX | XXX | XXX | XXX | 72 | Clear some sand No odor |
| 4 | 62.41 | 68.15 | 0.9 | 6 | 9/6/2019 | 148 | | 572 | XXX | XXX | XXX | XXX | 68 | Clear some sand No odor |
| 4 | 62.37 | 64.15 | 0.9 | 6 | 11/16/2019 | 140 | 137 | 564 | XXX | XXX | XXX | XXX | 74 | Clear some sand No odor |
| 4 | 62.36 | 68.15 | 0.9 | 6 | 3/7/2020 | 132 | | 543 | XXX | XXX | XXX | XXX | 77.6 | Clear some sand No odor |
| 4 | 62.57 | 68.15 | 0.9 | 6 | 9/12/2020 | 140 | 136 | 514 | XXX | XXX | XXX | XXX | 71.4 | Clear some sand No odor |
| 4 | 63.27 | 68.15 | 0.8 | 6 | 3/13/2021 | 156 | | 594 | XXX | XXX | XXX | XXX | 66.1 | Clear some sand No odor |
| 4 | 63.81 | 68.15 | 0.7 | 6 | 6/19/2021 | 96 | | 492 | XXX | XXX | XXX | XXX | 69.5 | Clear some sand No odor |
| 4 | 63.79 | 68.15 | 0.7 | 6 | 9/11/2021 | 84 | | 457 | XXX | XXX | XXX | XXX | 70.1 | Clear some sand No odor |
| 4 | 64.79 | 68.15 | 0.5 | 6 | 11/15/2021 | 152 | 122 | 536 | XXX | XXX | XXX | XXX | 79 | Clear some sand No odor |
| 4 | 63.85 | 68.15 | 0.7 | 6 | 3/11/2022 | 36 | | 344 | XXX | XXX | XXX | XXX | 60.6 | Clear some sand No odor |
| 4 | 63.75 | 68.15 | 0.7 | 6 | 6/8/2022 | 52 | | 382 | XXX | XXX | XXX | XXX | 70.2 | Clear some sand No odor |
| 4 | 63.87 | 68.15 | 0.7 | 6 | 9/12/2022 | 72 | | 430 | XXX | XXX | XXX | XXX | 62 | Clear some sand No odor |
| 4 | 64.36 | 68.15 | 0.8 | 6 | 12/5/2022 | 80 | 60 | 421 | XXX | XXX | XXX | XXX | 63 | Clear some sand No odor |
| 4 | 64.47 | 68.15 | 0.6 | 6 | 3/15/2023 | 56 | | 375 | XXX | XXX | XXX | XXX | 59.6 | Clear some sand No odor |
| 4 | 64.55 | 68.15 | 0.6 | 6 | 6/7/2023 | 64 | | 402 | XXX | XXX | XXX | XXX | 69.2 | Clear some sand No odor |
| 4 | 64.3 | 68.15 | 0.6 | 5 | 9/13/2023 | 104 | | 498 | XXX | XXX | XXX | XXX | 96.8 | Clear some sand No odor |
| 4 | 64.2 | 68.15 | 0.6 | 5 | 10/14/2023 | 80 | 76 | 542 | XXX | XXX | XXX | XXX | 66.3 | Clear some sand No odor |

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|------|-------------------|----------------|----------------|------------------|-------------|-------|----------------|-------|---------|---------|------------------|------------------|---------|-------------------------|
| RW-1 | XXX | 92.9 | XXX | XXX | 7/30/2008 | 1,070 | | 2,200 | <0.001 | <0.001 | <0.001 | <0.003 | 61 | Clear some sand No odor |
| RW-1 | XXX | 92.9 | XXX | XXX | 11/10/2008 | 1,200 | 1,135 | 2,360 | <0.001 | <0.001 | <0.001 | <0.003 | 57.9 | Clear some sand No odor |
| RW-1 | XXX | 92.9 | XXX | XXX | 1/30/2009 | 1,680 | | 3,170 | <0.001 | <0.001 | <0.001 | <0.003 | 103 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 50 | 5/1/2009 | 750 | | 1,570 | <0.001 | <0.001 | <0.001 | <0.003 | 54.3 | Clear No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| | 1 | | | | | | | | | | I | | I | |
|------|-------------------|----------------|----------------|------------------|-------------|-------|----------------|-------|---------|---------|------------------|------------------|---------|----------------------------------|
| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
| RW-1 | XXX | 92.9 | XXX | 50 | 8/4/2009 | 580 | | 1,290 | <0.001 | <0.001 | <0.001 | <0.003 | 60.5 | Clear No odor |
| RW-1 | XXX | 92.2 | XXX | 50 | 10/20/2009 | 730 | 935 | 1,620 | <0.001 | <0.001 | <0.001 | <0.003 | 59 | Clear No odor |
| RW-1 | XXX | 92.2 | XXX | XXX | 4/28/2010 | 490 | 935 | 1,160 | <0.001 | <0.001 | <0.001 | <0.003 | 72.1 | Clear No odor |
| | | 92.9 | XXX | 100 | 1/27/2010 | 1,220 | | - 1 | <0.001 | <0.001 | | <0.003 | 82.8 | |
| RW-1 | XXX | | | | | | | 2,360 | | | <0.001 | | | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Pumping | 7/29/2010 | 570 | CEO | 1,330 | <0.001 | <0.001 | <0.001 | <0.003 | 65.2 | Clear No odor |
| RW-1 | XXX | 9290 | XXX | Pumping | 10/26/2010 | 332 | 653 | 888 | <0.001 | <0.001 | <0.001 | <0.003 | 58.5 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 2/16/2011 | 750 | | 1,670 | <0.001 | <0.001 | <0.001 | <0.003 | 71.3 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 6/1/2011 | 476 | | 1,130 | <0.001 | <0.001 | <0.001 | <0.003 | 60.5 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 8/30/2011 | 490 | | 1,090 | <0.001 | <0.001 | <0.001 | <0.003 | 63.1 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 12/1/2011 | XXX | 572 | XXX | XXX | XXX | XXX | XXX | XXX | Well not sampled Solar pump down |
| RW-1 | XXX | XXX | XXX | XXX | 9/6/2013 | 212 | | 645 | XXX | XXX | XXX | XXX | XXX | XXX |
| RW-1 | XXX | 92.9 | XXX | 100 | 11/15/2013 | 300 | 256 | 779 | XXX | XXX | XXX | XXX | 65.5 | Clear No Odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 3/4/2014 | 364 | | 902 | XXX | XXX | XXX | XXX | 85 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 6/3/2014 | 300 | | 838 | XXX | XXX | XXX | XXX | 60 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 8/28/2014 | 292 | | 762 | XXX | XXX | XXX | XXX | 58.6 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 11/21/2014 | 84 | 260 | 376 | XXX | XXX | XXX | XXX | 51.2 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 3/3/2015 | 252 | | 1,040 | XXX | XXX | XXX | XXX | 45.9 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 6/3/2015 | 240 | | 1,010 | XXX | XXX | XXX | XXX | 49.1 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 8/22/2015 | 292 | | 812 | XXX | XXX | XXX | XXX | 59.7 | Clear No odor |
| RW-1 | XXX | 92.9 | 0 | Running | 11/8/2015 | 220 | 251 | 636 | XXX | XXX | XXX | XXX | 60.2 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 2/26/2016 | 570 | | 1,200 | XXX | XXX | XXX | XXX | 72 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 5/21/2016 | 620 | | 1,580 | XXX | XXX | XXX | XXX | 57 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 9/10/2016 | 368 | | 1,060 | XXX | XXX | XXX | XXX | 65 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 11/10/2016 | 292 | 463 | 1,040 | XXX | XXX | XXX | XXX | 49 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 2/22/2017 | 690 | | 1,610 | XXX | XXX | XXX | XXX | 68 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 5/25/2017 | 810 | | 2,020 | XXX | XXX | XXX | XXX | 76 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 9/16/2017 | 156 | | 558 | XXX | XXX | XXX | XXX | 61 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 12/2/2017 | 652 | 577 | 1,610 | XXX | XXX | XXX | XXX | 77 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 2/28/2018 | 680 | | 1,500 | XXX | XXX | XXX | XXX | 102 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 5/15/2018 | 820 | | 1,270 | XXX | XXX | XXX | XXX | 78.1 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 9/8/2018 | 112 | | 452 | XXX | XXX | XXX | XXX | 56 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 11/13/2018 | 480 | 523 | 970 | XXX | XXX | XXX | XXX | 80.2 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 3/6/2019 | 820 | | 1,840 | XXX | XXX | XXX | XXX | 73 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 5/29/2019 | 108 | | 465 | XXX | XXX | XXX | XXX | 56 | Clear No odor |

ROC - Vacuum K-35-1 boot (1R425-03) Unit Letter K, Section 35, T17S, R35E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | ann. avg Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|------|-------------------|----------------|----------------|------------------|-------------|-----|----------------|-----|---------|---------|------------------|------------------|---------|---------------|
| RW-1 | XXX | 92.9 | XXX | Running | 9/6/2019 | 108 | | 490 | XXX | XXX | XXX | XXX | 53 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 11/16/2019 | 40 | 269 | 428 | XXX | XXX | XXX | XXX | 155 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 3/7/2020 | 212 | | 642 | XXX | XXX | XXX | XXX | 68.6 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 9/12/2020 | 264 | 238 | 764 | XXX | XXX | XXX | XXX | 78.4 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 3/13/2021 | 328 | | 791 | XXX | XXX | XXX | XXX | 62.6 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 6/19/2021 | 120 | | 473 | XXX | XXX | XXX | XXX | 66.2 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 9/11/2021 | 148 | | 564 | XXX | XXX | XXX | XXX | 53.5 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 11/15/2021 | 160 | 189 | 538 | XXX | XXX | XXX | XXX | 74.7 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 3/11/2022 | 224 | | 649 | XXX | XXX | XXX | XXX | 55.4 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 6/8/2022 | 80 | | 404 | XXX | XXX | XXX | XXX | 79.3 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 9/12/2022 | 176 | | 622 | XXX | XXX | XXX | XXX | 60.1 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 12/5/2022 | 156 | 159 | 772 | XXX | XXX | XXX | XXX | 32.3 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | 100 | 3/15/2023 | 236 | | 563 | XXX | XXX | XXX | XXX | 69.5 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 6/7/2023 | 140 | | 568 | XXX | XXX | XXX | XXX | 61.9 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 9/13/2023 | 120 | | 490 | XXX | XXX | XXX | XXX | 63.8 | Clear No odor |
| RW-1 | XXX | 92.9 | XXX | Running | 10/14/2023 | 48 | 136 | 394 | XXX | XXX | XXX | XXX | 66.5 | Clear No odor |



March 28, 2023

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM JUNCTION K-35-1

Enclosed are the results of analyses for samples received by the laboratory on 03/20/23 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 03/20/2023 Sampling Date: 03/15/2023
Reported: 03/28/2023 Sampling Type: Water

Project Name: VACUUM JUNCTION K-35-1 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sample ID: MONITOR WELL #1 (H231253-01)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 144 | 4.00 | 03/21/2023 | ND | 100 | 100 | 100 | 3.92 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 63.8 | 10.0 | 03/21/2023 | ND | 23.0 | 115 | 20.0 | 3.59 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 616 | 5.00 | 03/22/2023 | ND | 800 | 80.0 | 1000 | 0.377 | |
| | | | | | | | | | |

Sample ID: MONITOR WELL #2 (H231253-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 60.0 | 4.00 | 03/21/2023 | ND | 100 | 100 | 100 | 3.92 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 64.6 | 10.0 | 03/21/2023 | ND | 23.0 | 115 | 20.0 | 3.59 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 363 | 5.00 | 03/27/2023 | ND | 833 | 83.3 | 1000 | 9.95 | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 03/20/2023 Reported: 03/28/2023

Project Name: VACUUM JUNCTION K-35-1

Project Number: NOT GIVEN

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sampling Date: 03/15/2023 Sampling Type: Water

Sample Received By:

Sampling Condition: Cool & Intact

Tamara Oldaker

Sample ID: MONITOR WELL #3 (H231253-03)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 68.0 | 4.00 | 03/21/2023 | ND | 100 | 100 | 100 | 3.92 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 59.1 | 10.0 | 03/21/2023 | ND | 23.0 | 115 | 20.0 | 3.59 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 378 | 5.00 | 03/27/2023 | ND | 833 | 83.3 | 1000 | 9.95 | |
| | | | | | | | | | |

Sample ID: MONITOR WELL #4 (H231253-04)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 56.0 | 4.00 | 03/21/2023 | ND | 100 | 100 | 100 | 3.92 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 59.6 | 10.0 | 03/21/2023 | ND | 23.0 | 115 | 20.0 | 3.59 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 375 | 5.00 | 03/28/2023 | ND | 833 | 83.3 | 1000 | 9.95 | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 03/20/2023 Reported: 03/28/2023

Project Name: VACUUM JUNCTION K-35-1

Project Number: NOT GIVEN

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sampling Date: 03/15/2023 Sampling Type: Water

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: RECOVERY WELL #1 (H231253-05)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 236 | 4.00 | 03/21/2023 | ND | 100 | 100 | 100 | 3.92 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 69.5 | 10.0 | 03/21/2023 | ND | 23.0 | 115 | 20.0 | 3.59 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 563 | 5.00 | 03/28/2023 | ND | 833 | 83.3 | 1000 | 9.95 | |

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene





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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Celey D. Keene

Released to Imaging: 2/26/2025 9:24:43 AM



June 15, 2023

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM JUNCTION K-35-1

Enclosed are the results of analyses for samples received by the laboratory on 06/08/23 16:32.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 06/08/2023 Sampling Date: 06/07/2023
Reported: 06/15/2023 Sampling Type: Water

Project Name: VACUUM JUNCTION K-35-1 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Shalyn Rodriguez

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sample ID: MONITOR WELL #1 (H232956-01)

| mg, | /L | Analyze | d By: AC | | | | | |
|--------|---|------------|---|---|---|---|--|--|
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 220 | 4.00 | 06/09/2023 | ND | 108 | 108 | 100 | 0.00 | |
| mg, | /L | Analyze | d By: AC | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 62.8 | 10.0 | 06/12/2023 | ND | 20.0 | 99.8 | 20.0 | 2.28 | |
| mg | /L | Analyze | d By: AC | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 702 | 5.00 | 06/13/2023 | ND | 835 | 83.5 | 1000 | 1.52 | |
| - | Result 220 mg, Result 62.8 mg, Result | 220 | Result Reporting Limit Analyzed 220 4.00 06/09/2023 mg/L Analyze Result Reporting Limit Analyzed 62.8 10.0 06/12/2023 mg/L Analyze Result Reporting Limit Analyze | Result Reporting Limit Analyzed Method Blank 220 4.00 06/09/2023 ND mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank 62.8 10.0 06/12/2023 ND mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank | Result Reporting Limit Analyzed Method Blank BS 220 4.00 06/09/2023 ND 108 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 62.8 10.0 06/12/2023 ND 20.0 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS | Result Reporting Limit Analyzed Method Blank BS % Recovery 220 4.00 06/09/2023 ND 108 108 Mesult Reporting Limit Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 62.8 10.0 06/12/2023 ND 20.0 99.8 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery | Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 220 4.00 06/09/2023 ND 108 108 100 mg/L Analyzed By: AC Method Blank BS % Recovery True Value QC 62.8 10.0 06/12/2023 ND 20.0 99.8 20.0 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC | Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 220 4.00 06/09/2023 ND 108 108 100 0.00 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 62.8 10.0 06/12/2023 ND 20.0 99.8 20.0 2.28 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD |

Sample ID: MONITOR WELL #2 (H232956-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 60.0 | 4.00 | 06/09/2023 | ND | 108 | 108 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 71.8 | 10.0 | 06/12/2023 | ND | 20.0 | 99.8 | 20.0 | 2.28 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 434 | 5.00 | 06/13/2023 | ND | 835 | 83.5 | 1000 | 1.52 | |

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Celey D. Kune





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 06/08/2023 Reported: 06/15/2023

VACUUM JUNCTION K-35-1

Project Number: NOT GIVEN

Project Name:

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sampling Date: 06/07/2023

Sampling Type: Water
Sampling Condition: Cool & Intact

Sample Received By: Shalyn Rodriguez

Sample ID: MONITOR WELL #3 (H232956-03)

| Chloride, SM4500Cl-B | mg, | 'L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 96.0 | 4.00 | 06/09/2023 | ND | 108 | 108 | 100 | 0.00 | |
| Sulfate 375.4 | mg, | 'L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 69.8 | 10.0 | 06/12/2023 | ND | 20.0 | 99.8 | 20.0 | 2.28 | |
| TDS 160.1 | mg, | 'L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 519 | 5.00 | 06/13/2023 | ND | 835 | 83.5 | 1000 | 1.52 | |
| | | | | | | | | | |

Sample ID: MONITOR WELL #4 (H232956-04)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 64.0 | 4.00 | 06/09/2023 | ND | 108 | 108 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 69.2 | 10.0 | 06/12/2023 | ND | 20.0 | 99.8 | 20.0 | 2.28 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 402 | 5.00 | 06/14/2023 | ND | 822 | 82.2 | 1000 | 2.21 | |

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 06/08/2023 Reported: 06/15/2023

Project Name: VACUUM JUNCTION K-35-1

Project Number: NOT GIVEN

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sampling Date: 06/07/2023 Sampling Type: Water

Sampling Type: Water
Sampling Condition: Cool & Intact

Sample Received By: Shalyn Rodriguez

Sample ID: RECOVERY WELL #1 (H232956-05)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 140 | 4.00 | 06/09/2023 | ND | 108 | 108 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 61.9 | 10.0 | 06/12/2023 | ND | 20.0 | 99.8 | 20.0 | 2.28 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 568 | 5.00 | 06/14/2023 | ND | 822 | 82.2 | 1000 | 2.21 | |

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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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|--|-------------------------------|------------------|------------|-------|---|--|--------|--------------|------------------|--------------------|--------------------------------|---------------------|----------|-------------|-------|----------------|-----------|--------------------------------------|-----------|-------------------------|----------------|---------------------|-----------------|----------|----------------------|------------------|----------------|----------------------|--------------|------------------|-------------------------|---------------|------------------------|-----------|-----------------------------|
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| Company Name: | | | BILL 1 | | Com | | | | | | | PO# | | | | \vdash | | | | | Δ | NA | AL Y | SIS | s R | FΩ | UE | ST | | | | | | | |
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| Project Manager: Katie Jones | | | 122 W | Tavl | | | Hobb | s Ne | ew Me | | | | Lip) | | | ı | - | - | 1 | | 1 | 1 | | | | | | | | 1 | | 1 | | ' | - |
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| The state of the s | eet ~ Hobbs, New Mexico 88240 | | (575 |) 39 | 3-9 | 174 | | | | | | (57 | 5)3 | 397-1 | 471 | П | | | 000 | 88 | | | | | | | | | | | | | | | |
| Phone #: (575) 393-91 | 174 | Fax #: | 397- | 147 | 71 | | | | | - |) | | | | | | | (32) | 200 | | | | | | | | | | | | | | | | |
| Project #: | Project Name: | (373) | 1001 | 17/ | _ | - | / | - | 1 | | | | | | | П | | ped (C | 100 | D 7 | | | | | | | | | | | | | | | |
| | Vacuum Junction K- | 35-1 | | | | | / | | 4 | 1 | | | | - | 2012 | П | | tend | 3 | Se | | | | | | | | | | | | | | | |
| Project Location: | -Sec35 K ~ Lea County New Me | evico | | - / | Sam | pler | Signat | are: | RO | zann | e Joh | nson | 1 (57 | 5)631- | 9310 | | | 418.1/TX1005 / TX1005 Extended (C35) | d | Ag As Ba Cd Cr Pb Se Hg | | | | | | 25 | | | | | | HCO3) | | | onrs |
| 1173-K35E- | Geodo N. Cea County New IVI | AICO | 1 | 1 | 16 | ATD | V | Y | PRE | SEF | RVA | TIVE | П | CARA | PLING | | | X100 | 3 | 3 2 | | | | | | 8270C/625 | | | | | 2 | Ĭ, | 60 | | Turn Around Time ~ 24 Hours |
| | | | m/ | | IWL | ATR | 2) | + | _ | MET | HOI |) | 4 | SAIVII | LING | П | | 5/T | 6 | s Ba | | es | | | B/62 | | | 809 | | | Na, | SS | pilos | | - A |
| LAB# | | ф | CONTAINERS | 1 | | | | 18 | (g) | | | DPE) | - 1 | | | /602 | /602 | 2 | 1 | TCLP Metals Ag As B | S | TCLP Semi Volatiles | les | | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. | 308 | Pesticides 8081A/608 | - | Moisture Content | Cations (Ca, Mg, Na, K) | 804 | Total Dissolved Solids | | Ti H |
| | FIELD CODE | Ő. | N N | | | П | ш | | | 4 | | iter H | - 1 | 023) | |)21B | 8021B/602 | = | | tals | latile | m > | sticic | | ol. | emi. | 382/6 | s 80 | S, pł | Co | (Ca, | | ssolv | s s | pund |
| (LAB USE) | | dg or | Į į | 肥 | _ | П | DG | 1 | 3 64 | ISO | 040 | ICE (1-1Liter HDPE) | 삙 | E (2 | | E 8(| 8 8 | 418 | 827 | Me | TCLP Volatiles | P Se | TCLP Pesticides | | MS V | MS S | PCB's 8082/608 | icide | BOD, TSS, pH | sture | ons | Anions (CI, | | Chlorides | Aro |
| ONLY | | (G)rab or (C)omp | U # | WATER | SOIL | AIR | SLUDGE | 3 | HOC (4 40ml VOA) | NaHSO ₄ | H ₂ SO ₄ | 핑 | NONE | DATE (2023) | TIME | MTBE 8021B/602 | BTEX | 됩 | PAH 8270C | TOTAL | 15 T | TOL | TCL | RCI | GC/I | GC/I | PCB | Pest | ВОБ | Mois | Cati | Anic | Total | Sh | Turr |
| 1 | Monitor Well #1 | G | 1 | X | | | | T | T | | | 1 | | 6/7 | 13:30 | | | | T | T | | | | | | | | | | | |) | X | Х | |
| a | Monitor Well #2 | G | 1 | х | | | | T | T | | | 1 | | 6/7 | 9:15 | | | | \perp | I | | | | | | | | | | | |) | (X | Х | |
| 3 | Monitor Well #3 | G | 1 | Х | | | | 1 | | | | 1 | _ | 6/7 | 10:50 | Ц | | 1 | 1 | \perp | L | L | L | L | | | | \perp | L | Ш | Ц | - > | +- | Х | |
| 4 | Monitor Well #4 | G | 1 | X | _ | Н | 1 | 1 | \perp | | Ш | 1 | _ | 67 | 12:05 | - | 4 | 4 | + | + | 1 | - | L | _ | | | _ | ⊢ | - | Н | Н | $\overline{}$ | (X | Х | |
| 5 | Recovery Well #1 | G | 1 | X | _ | Н | + | + | + | - | Н | 1 | \dashv | 6/7 | 16:55 | H | + | + | + | + | + | - | H | - | \vdash | | H | \vdash | \vdash | Н | Н | + | X | Х | - |
| | | ├ | - | + | - | Н | + | + | + | \vdash | Н | \forall | \dashv | | - | Н | + | + | + | + | + | \vdash | \vdash | \vdash | \vdash | | | \vdash | \vdash | Н | Н | + | + | | \vdash |
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| Relinquished by | Pate: Time: | Recei | ved by | | _ | | | _ | | ate: | | Tim | | | | Pho | ne R | esu | lts | I | Υe | es | | No | | | | | | | | | | | |
| Rozanne Johnson | 1/4/2023 16:5 | 6 | EX | 16 | 20 | n | 0 | N | LU | 181 | 2 | 3 | 1 | 03 | 3 | Fax | Res | ults | | | Υe | es | | No | | Add | ditio | nal F | Fax | Nun | nber | : | | | |
| Relinquished by: | Date: Time: | Receiv | ved By | : (L | abor | atory | Staf |) (| | ate: | | Tim | ne: | | | REN | //AR | KS: | | | | | | | | | | | | | | | | | |
| Delivered By: (| | | | | | | | | | | | | | | | | Ema | il Re | esul | ts: | | | | | ces | | | | | | | | | | |
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| | | | Yes | Coo | Yes | Intac | | (li | nitials | 3 | 2 | _ | | | | | | | | | | | | | | | | | | | | | | | |
| \$ampler - U | JPS - Bus - Other: | | No | T | No | Н | | | (| | • | | | | | | | | | | | | | | | | | | | | | | | | |
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Released to Imaging: 2/26/2025 9:24:43 AM



September 29, 2023

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM JUNCTION K-35-1

Enclosed are the results of analyses for samples received by the laboratory on 09/19/23 13:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 09/19/2023 Sampling Date: 09/13/2023 Reported: 09/29/2023 Sampling Type: Water

Project Name: VACUUM JUNCTION K-35-1 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sample ID: MONITOR WELL #1 (H235077-01)

| /L | Analyze | d By: AC | | | | | |
|-----------------|---|---|--|---|--|--|--|
| Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 4.00 | 09/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| /L | Analyze | d By: AC | | | | | |
| Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 10.0 | 09/20/2023 | ND | 22.3 | 112 | 20.0 | 3.19 | |
| /L | Analyze | d By: AC | | | | | |
| Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 5.00 | 09/26/2023 | ND | 480 | 96.0 | 500 | 4.51 | |
| , | Reporting Limit 4.00 I/L Reporting Limit 10.0 I/L Reporting Limit | Reporting Limit Analyzed 4.00 09/20/2023 Analyze Reporting Limit Analyzed 10.0 09/20/2023 Analyze Reporting Limit Analyzed Analyze | Reporting Limit Analyzed Method Blank 4.00 09/20/2023 ND Analyzed By: AC Reporting Limit Analyzed Method Blank 10.0 09/20/2023 ND Analyzed By: AC Reporting Limit Analyzed By: AC Reporting Limit Analyzed Method Blank | Reporting Limit Analyzed Method Blank BS 4.00 09/20/2023 ND 100 Analyzed By: AC Reporting Limit Analyzed Method Blank BS 10.0 09/20/2023 ND 22.3 Analyzed By: AC Reporting Limit Analyzed By: AC Reporting Limit Analyzed By: AC | Reporting Limit Analyzed Method Blank BS % Recovery 4.00 09/20/2023 ND 100 100 1/L Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery 10.0 09/20/2023 ND 22.3 112 1/L Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery Method Blank BS % Recovery Method Blank BS % Recovery | Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 4.00 09/20/2023 ND 100 100 100 I/L Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 10.0 09/20/2023 ND 22.3 112 20.0 I/L Analyzed By: AC Reporting Limit Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value QC | Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 4.00 09/20/2023 ND 100 100 100 0.00 I/L Analyzed By: AC Analyzed By: AC Recovery True Value QC RPD 10.0 09/20/2023 ND 22.3 112 20.0 3.19 I/L Analyzed By: AC Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD |

Sample ID: MONITOR WELL #2 (H235077-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 60.0 | 4.00 | 09/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 68.6 | 10.0 | 09/20/2023 | ND | 22.3 | 112 | 20.0 | 3.19 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 375 | 5.00 | 09/26/2023 | ND | 480 | 96.0 | 500 | 4.51 | |

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Celeg D. Freene



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 09/19/2023 Reported: 09/29/2023

Project Name: VACUUM JUNCTION K-35-1

Project Number: NOT GIVEN

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sampling Date: 09/13/2023 Sampling Type: Water

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #3 (H235077-03)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 132 | 4.00 | 09/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 77.4 | 10.0 | 09/20/2023 | ND | 22.3 | 112 | 20.0 | 3.19 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 527 | 5.00 | 09/26/2023 | ND | 480 | 96.0 | 500 | 4.51 | |
| | | | | | | | | | |

Sample ID: MONITOR WELL #4 (H235077-04)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 104 | 4.00 | 09/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 96.8 | 25.0 | 09/20/2023 | ND | 22.3 | 112 | 20.0 | 3.19 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 498 | 5.00 | 09/26/2023 | ND | 480 | 96.0 | 500 | 4.51 | |

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Celeg D. Freene





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 09/19/2023 Reported: 09/29/2023

Project Name: VACUUM JUNCTION K-35-1

Project Number: NOT GIVEN

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sampling Date: 09/13/2023 Sampling Type: Water

Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: RECOVERY WELL #1 (H235077-05)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 120 | 4.00 | 09/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 63.8 | 10.0 | 09/20/2023 | ND | 22.3 | 112 | 20.0 | 3.19 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 490 | 5.00 | 09/26/2023 | ND | 480 | 96.0 | 500 | 4.51 | |

Cardinal Laboratories *=Accredited Analyte

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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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Celeg & Freene

Sampler/

Released to Imaging: 2/26/2025 9:24:43 AM





October 30, 2023

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM JUNCTION K-35-1

Enclosed are the results of analyses for samples received by the laboratory on 10/19/23 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/19/2023 Reported: 10/30/2023

VACUUM JUNCTION K-35-1

Project Number: NOT GIVEN

Project Name:

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sampling Date: 10/14/2023

Sampling Type: Water

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #1 (H235717-01)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 176 | 4.00 | 10/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 71.3 | 10.0 | 10/20/2023 | ND | 21.6 | 108 | 20.0 | 9.71 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 684 | 5.00 | 10/24/2023 | ND | 490 | 98.0 | 500 | 1.48 | |
| | | | | | | | | | |

Sample ID: MONITOR WELL #2 (H235717-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 60.0 | 4.00 | 10/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 71.2 | 10.0 | 10/20/2023 | ND | 21.6 | 108 | 20.0 | 9.71 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 408 | 5.00 | 10/24/2023 | ND | 490 | 98.0 | 500 | 1.48 | |

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Celey D. Kune





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/19/2023 Reported: 10/30/2023

VACUUM JUNCTION K-35-1

NOT GIVEN

Project Number:

Project Name:

Sampling Date: Sampling Type: Sampling Condition:

Sample Received By:

10/14/2023

Water

Cool & Intact Tamara Oldaker

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sample ID: MONITOR WELL #3 (H235717-03)

| Chloride, SM4500Cl-B | mg, | 'L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 96.0 | 4.00 | 10/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg, | 'L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 59.0 | 10.0 | 10/20/2023 | ND | 21.6 | 108 | 20.0 | 9.71 | |
| TDS 160.1 | mg, | 'L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 557 | 5.00 | 10/24/2023 | ND | 490 | 98.0 | 500 | 1.48 | |
| | | | | | | | | | |

Sample ID: MONITOR WELL #4 (H235717-04)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 80.0 | 4.00 | 10/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 66.3 | 25.0 | 10/20/2023 | ND | 21.6 | 108 | 20.0 | 9.71 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 542 | 5.00 | 10/27/2023 | ND | 824 | 82.4 | 1000 | 1.30 | |

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Celeg D. Keene





Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240

Fax To: (575) 397-1471

Received: 10/19/2023 Reported: 10/30/2023

Project Name: VACUUM JUNCTION K-35-1

Project Number: NOT GIVEN

Project Location: T17S-R35E-SEC35 K LEA COUNTY, NM

Sampling Date: 10/14/2023

Sampling Type: Water
Sampling Condition: Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: RECOVERY WELL #1 (H235717-05)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 48.0 | 4.00 | 10/20/2023 | ND | 100 | 100 | 100 | 0.00 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 66.5 | 10.0 | 10/20/2023 | ND | 21.6 | 108 | 20.0 | 9.71 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 394 | 5.00 | 10/27/2023 | ND | 824 | 82.4 | 1000 | 1.30 | |

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Celey & Keene





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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Celey D. Keine

Released to Imaging: 2/26/2025 9:24:43 AM



From: OCDOnline@state.nm.us

To: <u>Katie Jones</u>

Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 202305

Date: Tuesday, May 23, 2023 3:20:59 PM

To whom it may concern (c/o Katie Davis for RICE OPERATING COMPANY),

The OCD has approved the submitted *Ground Water Abatement* (GROUND WATER ABATEMENT), for incident ID (n#) nAPP2110349616, with the following conditions:

• Review of 2022 Annual Groundwater Report: Content satisfactory 1. Continue sampling MW #1 for chloride and total dissolved solids until eight (8) consecutive quarters below the allowable concentrations are achieved. 2. Terminate sampling from MW #2, MW #3, and MW #4 for all constituents of concern. 3. Continue sampling RW #1 for chloride until eight (8) consecutive quarters below the allowable concentrations are achieved. 3. Submit next annual report upon meeting the conditions above or no later than April 1, 2024.

The signed GROUND WATER ABATEMENT can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Nelson Velez Environmental Specialist - Advanced 505-469-6146 Nelson.Velez@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505 Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 327875

CONDITIONS

| Operator: | OGRID: |
|------------------------|--|
| RICE OPERATING COMPANY | 19174 |
| 122 W Taylor | Action Number: |
| Hobbs, NM 88240 | 327875 |
| | Action Type: |
| | [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

CONDITIONS

| Created By | | Condition Date |
|------------------|--|-------------------|
| michael.buchanan | Review of the 2023 Annual Report for Rice Operating Company (ROC)Vacuum-K35-1: content is satisfactory. 1. Seeking closure will require ROC to submit an official Completion and Termination Reportif that hasn't already been submitted. The report will need to demonstrate all requirements in 19.15.30.19 NMAC paragraphs (A) and (B). 2. Include the most up-to-date groundwater data and all relevant data for the site to demonstrate closure status. 3. Please submit the report within sixty (60) days from receipt of this notification. | 2/26/2025 |