RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2022

Bradford Billings

Environmental Bureau, Oil Conservation Division New Mexico Energy, Minerals, & Natural Resources Department 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: 2021 Annual Groundwater Report

Rice Operating Company – Hobbs SWD System

Hobbs K-29 EOL Boot (1R428-50): UL/K, Sec. 29, T18S, R38E

REVIEWED

By Nelson Velez at 3:10 pm, Dec 16, 2022

Review of 2021 Annual Groundwater Report: **Content satisfactory**

- 1. Continue sampling on a semi-annual schedule at a minimum
- 2. Submit next annual report no later than March 31, 2023.

Mr. Billings:

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

The site is located approximately 2.37 miles west of Hobbs, New Mexico at UL/K, Sec. 29, T18S, R38E as shown on the Geographical Location Map. NM OSE records indicate that groundwater will likely be encountered at a depth of approximately 67 feet.

An Investigation and Characterization Plan (ICP) was submitted to NMOCD on April 4th, 2008 and approved on May 21st, 2008. According to the ICP, the site was investigated through vertical and soil bore installation resulting in elevated chloride concentrations that decreased with depth. Based on the investigation, two monitoring wells were installed to determine groundwater quality and the wells have been sampled regularly since installation.

A Corrective Action Plan (CAP) was submitted and approved by NMOCD on February 5th, 2015. According to the NMOCD approved CAP, a 63x53-ft 20-mil reinforced liner was installed and properly seated at 4 ft bgs. The site was backfilled and seeded with a blend of native vegetation. A CAP Report and Soil Closure Request detailing this work was submitted to the NMOCD on September 8th, 2015. The report also requested an additional monitoring well (MW-3) be installed down-gradient of the site. NMOCD approved this report and granted 'Soil Closure' on September 15th, 2015. On October 2nd, 2015, the down-gradient well (MW-3) was installed, and lithology soil samples were collected at regular intervals.

ROC submitted the 2018 Annual Report and Addendum with a request to plug and abandon MW-1 and replace it with a 4-inch well to be used for groundwater recovery. NMOCD approved the request on September 5th, 2019. On November 12th, 2019, the well was plugged using a cement grout with 1-3% bentonite and a three ft cap of cement at the surface. A 4-inch

well (MW-1R) was installed approximately 10 ft southeast of the former well and lithology samples were collected at regular intervals.

All wells have been sampled regularly per NMOCD guidelines since installation. The attached table summarizes the analytical results from groundwater samples collected from the monitor wells at the site. The most recent sampling event resulted in a chloride concentration of 300 mg/L in MW-1, 80 mg/L in MW-2, and 228 mg/L in MW-3. BTEX concentrations have remained below detectable limit in each well since installation. In 2020, ROC received NMOCD approval to cease BTEX sampling. On January 31st, 2022, NMOCD granted approval to cease further sampling of MW-2 and MW-3. ROC will continue to grab samples from MW-2, as need, to ensure there are no non-ROC, up-gradient sources contributing to the degradation of groundwater quality. 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 each well at the site, 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,

Katie Davis

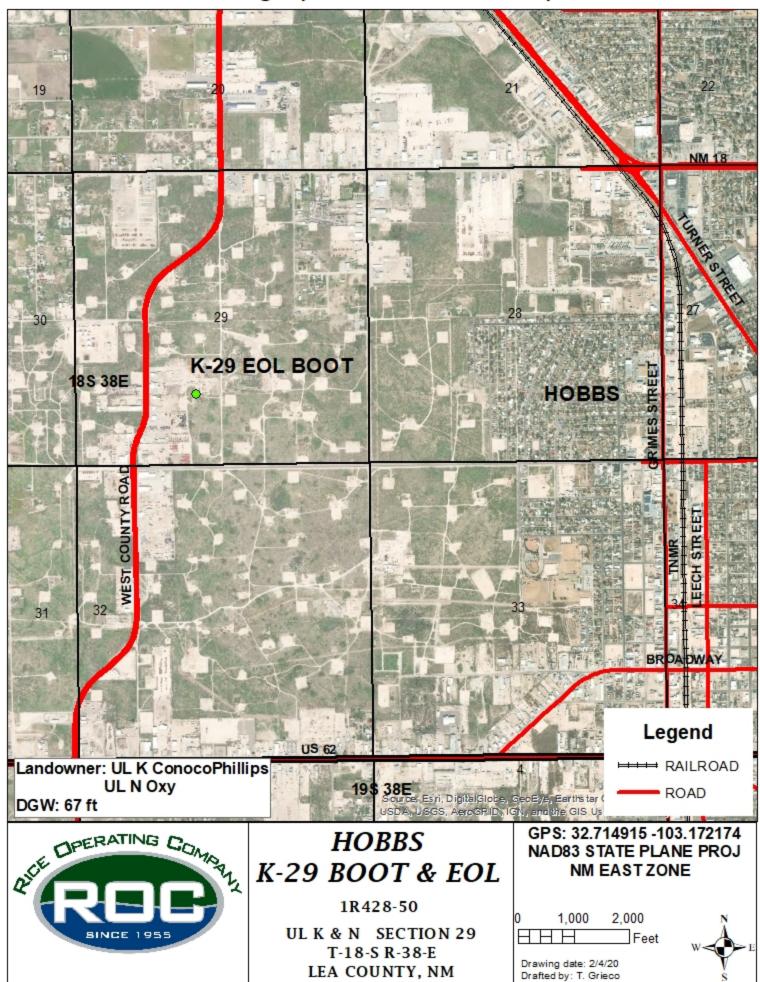
Environmental Manager

Katy Davis

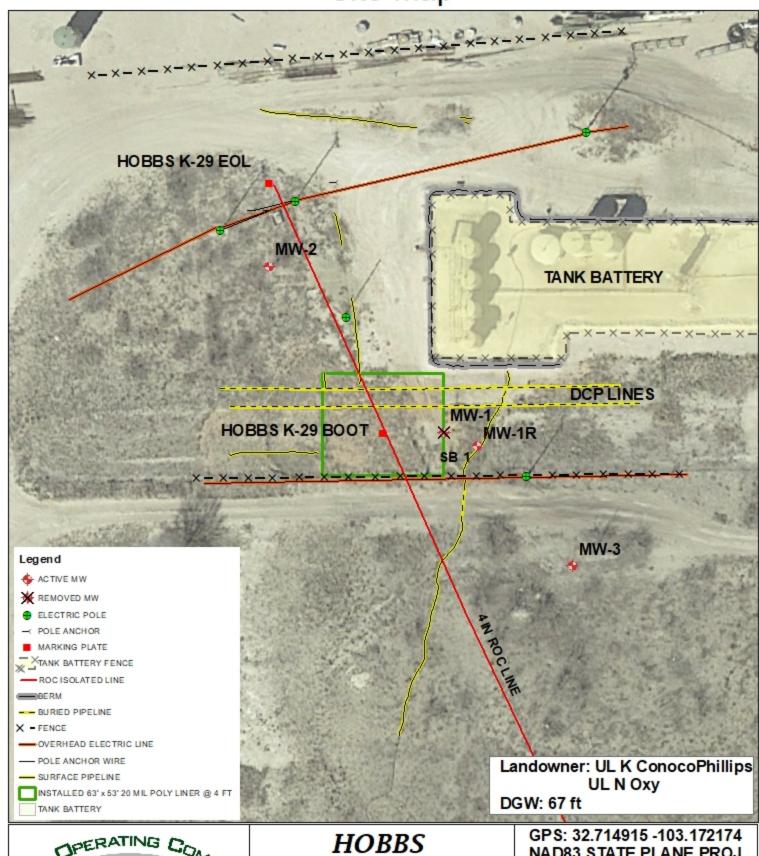
RICE Operating Company (ROC)

Cc – Edward J. Hansen (ROC)

appendix



Site Map





K-29 BOOT & EOL

1R428-50

ULK&N SECTION 29 T-18-S R-38-E LEA COUNTY, NM

NAD83 STATE PLANE PROJ NM EAST ZONE

25 50 GPS date: 11/03/14 TG Drawing date: 2/4/20

Drafted by: T. Grieco



ROC - Hobbs K-29 EOL (1R428-50) Unit Letter K, Section 29, T18S, R38E

| MW | Depth to | Total | Well | Volume | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl | Total | Sulfate | Comments |
|-------|----------|-------|--------|--------|-------------|-----|-------|-----------|----------|---------|---------|---------|---------------------------|
| IVIVV | Water | Depth | Volume | Purged | Sample Date | Ci | 103 | Delizelle | Toluelle | Benzene | Xylenes | Juliate | Comments |
| 1 | 62.34 | 73.6 | 1.8 | 6 | 7/14/2009 | 520 | 1,310 | <0.001 | <0.001 | <0.001 | <0.003 | 57 | Silt to clear Slight odor |
| 1 | 62.43 | 73.6 | 1.8 | 6 | 10/27/2009 | 332 | 757 | 0.001 | <0.001 | 0.002 | <0.003 | 59.5 | Silt to clear Slight odor |
| 1 | 62.72 | 73.62 | 1.7 | 6 | 3/15/2010 | 476 | 1,170 | <0.001 | <0.001 | <0.001 | <0.003 | 71.5 | Silt to clear Slight odor |
| 1 | 62.81 | 73.62 | 1.7 | 6 | 6/4/2010 | 432 | 1,320 | <0.001 | <0.001 | <0.001 | <0.003 | 78 | Silt to clear Slight odor |
| 1 | 62.56 | 73.62 | 1.8 | 6 | 8/30/2010 | 540 | 1,400 | <0.001 | <0.001 | <0.001 | <0.003 | 51.7 | Silt to clear Slight odor |
| 1 | 62.91 | 73.62 | 1.7 | 6 | 12/10/2010 | 560 | 1,280 | <0.001 | <0.001 | <0.001 | <0.003 | 67.9 | Silt to clear Slight odor |
| 1 | 63.05 | 73.62 | 1.7 | 6 | 3/23/2011 | 610 | 1,620 | <0.001 | <0.001 | <0.001 | <0.003 | 76.9 | Silt to clear Slight odor |
| 1 | 63.22 | 73.62 | 1.7 | 6 | 6/20/2011 | 540 | 1,280 | <0.001 | <0.001 | <0.001 | <0.003 | 71.9 | Silt to clear Slight odor |
| 1 | 63.44 | 73.62 | 1.6 | 6 | 9/20/2011 | 610 | 1,470 | <0.001 | <0.001 | <0.001 | <0.003 | 82.1 | Silt to clear Slight odor |
| 1 | 63.62 | 73.62 | 1.6 | 6 | 12/15/2011 | 540 | 1,320 | <0.001 | <0.001 | <0.001 | <0.003 | 87.2 | Silt to clear Slight odor |
| 1 | 63.78 | 73.62 | 1.6 | 6 | 3/13/2012 | 570 | 1,360 | 0.003 | <0.001 | <0.001 | <0.003 | 74.2 | Silt to clear Slight odor |
| 1 | 63.93 | 73.62 | 1.6 | 6 | 6/11/2012 | 500 | 1,410 | <0.001 | <0.001 | <0.001 | <0.003 | 85.5 | Silt to clear Slight odor |
| 1 | 64.14 | 73.62 | 1.5 | 6 | 9/6/2012 | 500 | 1,280 | < 0.001 | <0.001 | <0.001 | <0.003 | 77.6 | Silt to clear Slight odor |
| 1 | 64.3 | 73.62 | 1.5 | 6 | 11/29/2012 | 550 | 1,340 | <0.001 | <0.001 | <0.001 | <0.003 | 71.5 | Silt to clear Slight odor |
| 1 | 64.48 | 73.62 | 1.5 | 6 | 3/7/2013 | 492 | 1,220 | < 0.001 | <0.001 | <0.001 | <0.003 | 88 | Silt to clear Slight odor |
| 1 | 64.69 | 73.62 | 1.4 | 6 | 6/24/2013 | 344 | 1,060 | < 0.001 | <0.001 | <0.001 | <0.003 | 63 | Silt to clear Slight odor |
| 1 | 64.95 | 73.62 | 1.4 | 8 | 9/16/2013 | 336 | 987 | <0.001 | <0.001 | <0.001 | <0.003 | 88 | Silt to clear Slight odor |
| 1 | 65.15 | 73.62 | 1.4 | 6 | 12/12/2013 | 352 | 1,130 | <0.001 | <0.001 | <0.001 | <0.003 | 194 | Silt to clear Slight odor |
| 1 | 65.29 | 73.62 | 1.3 | 6 | 3/19/2014 | 352 | 1,080 | <0.001 | <0.001 | <0.001 | <0.003 | 112 | Silt to clear Slight odor |
| 1 | 65.49 | 73.62 | 1.3 | 6 | 6/16/2014 | 264 | 864 | < 0.001 | <0.001 | <0.001 | <0.003 | 64.2 | Silt to clear Slight odor |
| 1 | 65.78 | 73.62 | 1.3 | 6 | 9/10/2014 | 352 | 1,150 | <0.001 | <0.001 | <0.001 | <0.003 | 250 | Silt to clear Slight odor |
| 1 | 65.63 | 73.62 | 1.3 | 6 | 12/17/2014 | 300 | 904 | <0.001 | <0.001 | <0.001 | <0.003 | 158 | Silt to clear Slight odor |
| 1 | 65.78 | 73.62 | 1.3 | 6 | 3/17/2015 | 264 | 904 | <0.001 | <0.001 | <0.001 | <0.003 | 73 | Silt to clear Slight odor |
| 1 | 65.88 | 73.62 | 1.2 | 6 | 6/16/2015 | 320 | 1,020 | <0.001 | <0.001 | <0.001 | <0.003 | 86 | Silt to clear Slight odor |
| 1 | 65.93 | 73.65 | 1.2 | 6 | 9/17/2015 | 316 | 1,050 | <0.001 | <0.001 | <0.001 | <0.003 | 144 | Silt to clear Slight odor |
| 1 | 65.65 | 73.65 | 1.2 | 6 | 12/1/2015 | 252 | 764 | <0.001 | <0.001 | <0.001 | <0.003 | 79.9 | Silt to clear Slight odor |
| 1 | 65.9 | 73.65 | 1.2 | 6 | 3/28/2016 | 416 | 1,120 | <0.001 | <0.001 | <0.001 | <0.003 | 58.7 | Silt to clear Slight odor |
| 1 | 66.05 | 73.65 | 1.2 | 6 | 6/23/2016 | 490 | 1,430 | <0.001 | <0.001 | <0.001 | <0.003 | 62.4 | Silt to clear Slight odor |
| 1 | 65.93 | 73.65 | 1.2 | 6 | 9/26/2016 | 640 | 1,940 | <0.001 | <0.001 | <0.001 | <0.003 | 73 | Silt to clear Slight odor |

ROC - Hobbs K-29 EOL (1R428-50) Unit Letter K, Section 29, T18S, R38E

| MW | Depth to Water | Total Depth | Well Volume | Volume Purged | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl Benzene | Total Xylenes | Sulfate | Comments |
|----|-------------------|----------------|----------------|------------------|-------------|-----|-------|---------|---------|------------------|------------------|---------|---------------------------|
| 1 | 65.67 | 73.65 | 1.3 | 6 | 12/5/2016 | 500 | 1,420 | <0.001 | <0.001 | <0.001 | <0.003 | 72 | Silt to clear Slight odor |
| 1 | 65.91 | 73.65 | 1.2 | 6 | 3/20/2017 | 610 | 1,520 | <0.001 | <0.001 | <0.001 | <0.003 | 78 | Silt to clear Slight odor |
| 1 | 66.26 | 73.65 | 1.2 | 6 | 6/22/2017 | 620 | 1,690 | <0.001 | <0.001 | <0.001 | <0.003 | 81 | Silt to clear Slight odor |
| 1 | 66.28 | 73.65 | 1.2 | 6 | 9/25/2017 | 460 | 1,780 | <0.001 | <0.001 | <0.001 | <0.003 | 74 | Silt to clear Slight odor |
| 1 | 66.32 | 73.65 | 1.2 | 6 | 12/21/2017 | 510 | 1,290 | <0.001 | <0.001 | <0.001 | <0.003 | 80 | Silt to clear Slight odor |
| 1 | 66.46 | 73.62 | 1.1 | 6 | 3/20/2018 | 550 | 1,410 | <0.001 | <0.001 | <0.001 | <0.003 | 70.9 | Silt to clear Slight odor |
| 1 | 66.62 | 73.62 | 1.1 | 6 | 6/26/2018 | 550 | 1,380 | <0.001 | <0.001 | <0.001 | <0.003 | 67.8 | Silt to clear Slight odor |
| 1 | 66.77 | 73.62 | 1.1 | 6 | 9/18/2018 | 500 | 1,240 | <0.001 | <0.001 | <0.001 | <0.003 | 71.6 | Silt to clear Slight odor |
| 1 | 66.81 | 73.62 | 1.1 | 6 | 12/20/2018 | 500 | 1,310 | <0.001 | <0.001 | <0.001 | <0.003 | 89.8 | Silt to clear Slight odor |
| 1 | 66.94 | 73.65 | 1.1 | 6 | 3/25/2019 | 660 | 1,620 | <0.001 | <0.001 | <0.001 | <0.003 | 67 | Silt to clear Slight odor |
| 1 | 67.08 | 73.65 | 1 | 6 | 6/24/2019 | 620 | 1,610 | <0.001 | <0.001 | <0.001 | <0.003 | 66 | Silt to clear Slight odor |
| 1 | 67.15 | 73.65 | 1 | 6 | 9/23/2019 | 640 | 1,670 | <0.001 | <0.001 | <0.001 | <0.003 | 62 | Silt to clear Slight odor |
| 1R | 67.46 | 112.78 | 29 | 100 | 12/9/2019 | 200 | 730 | <0.001 | <0.001 | <0.001 | <0.003 | 70.7 | Silt to clear Slight odor |
| 1R | 67.63 | 112.78 | 29.3 | 100 | 3/19/2020 | 264 | 822 | <0.001 | <0.001 | <0.001 | <0.003 | 73.5 | Silt to clear Slight odor |
| 1R | 67.88 | 112.78 | 29.2 | 100 | 9/28/2020 | 284 | 674 | XXX | XXX | XXX | XXX | 62 | Silt to clear Slight odor |
| 1R | 68.15 | 112.78 | 29 | 100 | 3/25/2021 | 292 | 913 | XXX | XXX | XXX | XXX | 75.5 | Silt to clear Slight odor |
| 1R | 68.33 | 112.78 | 29 | 100 | 6/25/2021 | 236 | 927 | XXX | XXX | XXX | XXX | 126 | Silt to clear Slight odor |
| 1R | 68.27 | 112.78 | 29 | 100 | 9/24/2021 | 288 | 939 | XXX | XXX | XXX | XXX | 79.3 | Silt to clear Slight odor |
| 1R | 68.17 | 112.78 | 29 | 100 | 12/1/2021 | 300 | 955 | XXX | XXX | XXX | XXX | 78 | Silt to clear Slight odor |

| MW | Depth to | Total | Well | Volume | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl | Total | Culfata | Comments |
|-------|----------|-------|--------|--------|-------------|----|-----|---------|----------|---------|---------|---------|---------------------------|
| IVIVV | Water | Depth | Volume | Purged | Sample Date | Ci | נטו | benzene | Toluelle | Benzene | Xylenes | Sunate | Comments |
| 2 | 63.67 | 77.41 | 2.2 | 8 | 3/13/2012 | 68 | 522 | <0.001 | <0.001 | <0.001 | <0.003 | 83.2 | Silt to clear Slight odor |
| 2 | 63.87 | 77.41 | 2.2 | 8 | 6/11/2012 | 68 | 474 | <0.001 | <0.001 | <0.001 | <0.003 | 86.4 | Silt to clear Slight odor |
| 2 | 64.02 | 77.41 | 2.1 | 8 | 9/6/2012 | 64 | 500 | <0.001 | <0.001 | <0.001 | <0.003 | 88.2 | Silt to clear Slight odor |
| 2 | 64.22 | 77.41 | 2.1 | 8 | 11/29/2012 | 68 | 521 | <0.001 | <0.001 | <0.001 | <0.003 | 88.5 | Silt to clear Slight odor |
| 2 | 64.41 | 77.41 | 2.1 | 8 | 3/7/2013 | 72 | 478 | <0.001 | <0.001 | <0.001 | <0.003 | 95 | Silt to clear Slight odor |
| 2 | 64.65 | 77.41 | 2 | 8 | 6/24/2013 | 68 | 504 | <0.001 | <0.001 | <0.001 | <0.003 | 83 | Silt to clear Slight odor |
| 2 | 64.86 | 77.41 | 2 | 8 | 9/16/2013 | 64 | 485 | <0.001 | <0.001 | <0.001 | <0.003 | 75.3 | Silt to clear Slight odor |

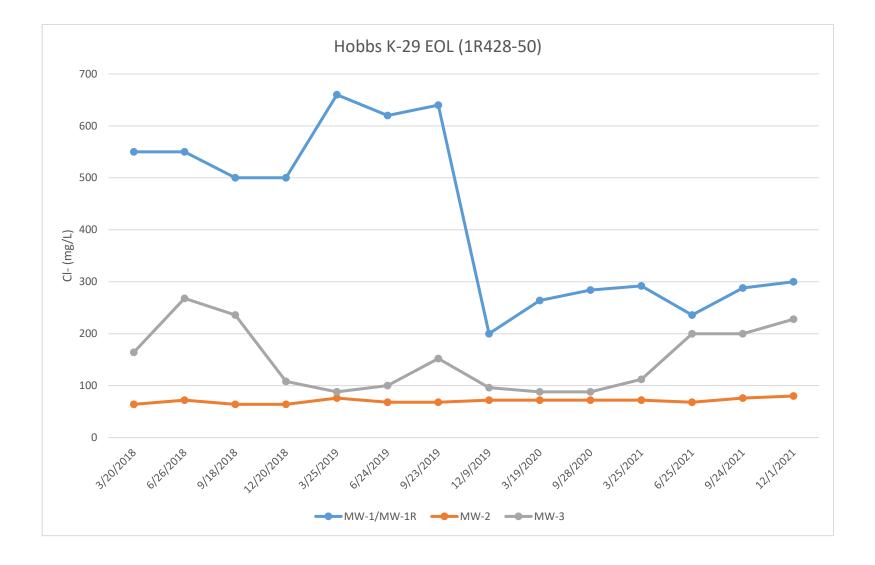
ROC - Hobbs K-29 EOL (1R428-50) Unit Letter K, Section 29, T18S, R38E

| MW | Depth to | Total | Well | Volume | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl | Total | Sulfate | Comments |
|-------|----------|-------|--------|--------|-------------|----------|-----|-----------|---------|---------|---------|---------|---------------------------|
| 10100 | Water | Depth | Volume | Purged | Sample Bate | <u> </u> | 103 | Delizerie | Totache | Benzene | Xylenes | Janate | Comments |
| 2 | 65.04 | 77.41 | 2 | 8 | 12/12/2013 | 64 | 473 | <0.001 | <0.001 | <0.001 | <0.003 | 93.4 | Silt to clear Slight odor |
| 2 | 65.24 | 77.41 | 1.9 | 8 | 3/19/2014 | 68 | 426 | <0.001 | <0.001 | <0.001 | <0.003 | 88.2 | Silt to clear Slight odor |
| 2 | 65.51 | 77.41 | 1.9 | 8 | 6/16/2014 | 68 | 572 | < 0.001 | <0.001 | <0.001 | <0.003 | 82.5 | Silt to clear Slight odor |
| 2 | 65.74 | 77.41 | 1.9 | 8 | 9/10/2014 | 64 | 512 | < 0.001 | <0.001 | <0.001 | <0.003 | 98.1 | Silt to clear Slight odor |
| 2 | 65.57 | 77.41 | 1.9 | 8 | 12/17/2014 | 68 | 482 | < 0.001 | <0.001 | <0.001 | <0.003 | 87 | Silt to clear Slight odor |
| 2 | 65.72 | 77.41 | 1.9 | 8 | 3/17/2015 | 52 | 452 | < 0.001 | <0.001 | <0.001 | <0.003 | 77 | Silt to clear Slight odor |
| 2 | 65.84 | 77.41 | 1.9 | 8 | 6/16/2015 | 72 | 518 | <0.001 | <0.001 | <0.001 | <0.003 | 70 | Silt to clear Slight odor |
| 2 | 65.88 | 77.41 | 1.9 | 8 | 9/17/2015 | 72 | 546 | <0.001 | <0.001 | <0.001 | <0.003 | 63.3 | Silt to clear Slight odor |
| 2 | 65.57 | 77.41 | 1.9 | 8 | 12/1/2015 | 72 | 558 | <0.001 | <0.001 | <0.001 | <0.003 | 87 | Silt to clear Slight odor |
| 2 | 65.84 | 77.41 | 1.9 | 8 | 3/28/2016 | 68 | 556 | <0.001 | <0.001 | <0.001 | <0.003 | 76.8 | Silt to clear Slight odor |
| 2 | 65.96 | 77.41 | 1.8 | 8 | 6/23/2016 | 76 | 506 | <0.001 | <0.001 | <0.001 | <0.003 | 110 | Silt to clear Slight odor |
| 2 | 65.86 | 77.41 | 1.8 | 8 | 9/26/2016 | 68 | 544 | <0.001 | <0.001 | <0.001 | <0.003 | 95 | Silt to clear Slight odor |
| 2 | 65.6 | 77.41 | 1.9 | 8 | 12/5/2016 | 92 | 560 | <0.001 | <0.001 | <0.001 | <0.003 | 107 | Silt to clear Slight odor |
| 2 | 65.84 | 77.41 | 1.9 | 8 | 3/20/2017 | 68 | 540 | <0.001 | <0.001 | <0.001 | <0.003 | 72 | Silt to clear Slight odor |
| 2 | 66.18 | 77.41 | 1.8 | 8 | 6/22/2017 | 72 | 532 | <0.001 | <0.001 | <0.001 | <0.003 | 82 | Silt to clear Slight odor |
| 2 | 66.21 | 77.41 | 1.8 | 8 | 9/25/2017 | 72 | 714 | <0.001 | <0.001 | <0.001 | <0.003 | 92 | Silt to clear Slight odor |
| 2 | 66.28 | 77.41 | 1.8 | 8 | 12/21/2017 | 92 | 526 | <0.001 | <0.001 | <0.001 | <0.003 | 98 | Silt to clear Slight odor |
| 2 | 66.41 | 77.41 | 1.8 | 8 | 3/20/2018 | 64 | 404 | <0.001 | <0.001 | <0.001 | <0.003 | 94.7 | Silt to clear Slight odor |
| 2 | 66.55 | 77.41 | 1.7 | 8 | 6/26/2018 | 72 | 638 | <0.001 | <0.001 | <0.001 | <0.003 | 71.6 | Silt to clear Slight odor |
| 2 | 66.71 | 77.41 | 1.7 | 8 | 9/18/2018 | 64 | 520 | <0.001 | <0.001 | <0.001 | <0.003 | 86.2 | Silt to clear Slight odor |
| 2 | 66.74 | 77.41 | 1.7 | 8 | 12/20/2018 | 64 | 510 | <0.001 | <0.001 | <0.001 | <0.003 | 121 | Silt to clear Slight odor |
| 2 | 66.89 | 77.41 | 1.7 | 8 | 3/25/2019 | 76 | 543 | <0.001 | <0.001 | <0.001 | <0.003 | 94 | Silt to clear Slight odor |
| 2 | 67.02 | 77.41 | 1.7 | 8 | 6/24/2019 | 68 | 603 | <0.001 | <0.001 | <0.001 | <0.003 | 34 | Silt to clear Slight odor |
| 2 | 67.09 | 77.41 | 1.7 | 8 | 9/23/2019 | 68 | 496 | <0.001 | <0.001 | <0.001 | <0.003 | 103 | Silt to clear Slight odor |
| 2 | 67.28 | 77.41 | 1.6 | 8 | 12/9/2019 | 72 | 561 | <0.001 | <0.001 | <0.001 | <0.003 | 85 | Silt to clear Slight odor |
| 2 | 67.45 | 77.41 | 1.6 | 8 | 3/19/2020 | 72 | 526 | <0.001 | <0.001 | <0.001 | <0.003 | 72 | Silt to clear Slight odor |
| 2 | 67.72 | 77.41 | 1.6 | 8 | 9/28/2020 | 72 | 460 | XXX | XXX | XXX | XXX | 79 | Silt to clear Slight odor |
| 2 | 68 | 77.41 | 1.5 | 8 | 3/25/2021 | 72 | 517 | XXX | XXX | XXX | XXX | 99.6 | Silt to clear Slight odor |
| 2 | 68.18 | 77.41 | 1.5 | 8 | 6/25/2021 | 68 | 539 | XXX | XXX | XXX | XXX | 91.6 | Silt to clear Slight odor |

ROC - Hobbs K-29 EOL (1R428-50) Unit Letter K, Section 29, T18S, R38E

| MW | Depth to | Total | Well | Volume | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl | Total | Sulfate | Comments |
|-------|----------|-------|--------|--------|-------------|----|-----|-----------|----------|---------|---------|---------|---------------------------|
| 10100 | Water | Depth | Volume | Purged | Sample Bate | Ci | - 0 | Berizerie | Toluctio | Benzene | Xylenes | Sanate | Comments |
| 2 | 68.18 | 77.41 | 1.5 | 8 | 9/24/2021 | 76 | 542 | XXX | XXX | XXX | XXX | 103 | Silt to clear Slight odor |
| 2 | 68.03 | 77.41 | 1.5 | 8 | 12/1/2021 | 80 | 572 | XXX | XXX | XXX | XXX | 91 | Silt to clear Slight odor |

| MW | Depth to | Total | Well | Volume | Sample Date | Cl | TDS | Benzene | Toluene | Ethyl | Total | Sulfate | Comments |
|-------|----------|--------|--------|--------|-------------|-----|-------|---------|---------|---------|---------|---------|---------------------------|
| IVIVV | Water | Depth | Volume | Purged | Sample Date | Ci | נטו | Benzene | roluene | Benzene | Xylenes | Sullate | Comments |
| 3 | 64.23 | 110.22 | 29.9 | 120 | 12/1/2015 | 220 | 784 | <0.001 | <0.001 | <0.001 | <0.003 | 65 | Silt to clear Slight odor |
| 3 | 64.18 | 110.22 | 30 | 100 | 3/28/2016 | 296 | 960 | <0.001 | <0.001 | <0.001 | <0.003 | 65 | Silt to clear Slight odor |
| 3 | 64.6 | 110.22 | 30 | 100 | 6/23/2016 | 510 | 1,240 | <0.001 | <0.001 | <0.001 | <0.003 | 62 | Silt to clear Slight odor |
| 3 | 64.45 | 110.22 | 30 | 100 | 9/26/2016 | 540 | 1,600 | <0.001 | <0.001 | <0.001 | <0.003 | 67 | Silt to clear Slight odor |
| 3 | 64.18 | 110.22 | 30 | 100 | 12/5/2016 | 560 | 1,400 | <0.001 | <0.001 | <0.001 | <0.003 | 71 | Silt to clear Slight odor |
| 3 | 64.5 | 110.22 | 30 | 100 | 3/20/2017 | 570 | 1,520 | <0.001 | <0.001 | <0.001 | <0.003 | 96 | Silt to clear Slight odor |
| 3 | 64.83 | 110.22 | 30 | 100 | 6/22/2017 | 510 | 1,560 | <0.001 | <0.001 | <0.001 | <0.003 | 78 | Silt to clear Slight odor |
| 3 | 64.85 | 110.22 | 30 | 100 | 9/25/2017 | 540 | 1,800 | <0.001 | <0.001 | <0.001 | <0.003 | 71 | Silt to clear Slight odor |
| 3 | 64.88 | 110.22 | 30 | 100 | 12/21/2017 | 300 | 980 | <0.001 | <0.001 | <0.001 | <0.003 | 45 | Silt to clear Slight odor |
| 3 | 65.02 | 110.22 | 29.4 | 100 | 3/20/2018 | 164 | 662 | <0.001 | <0.001 | <0.001 | <0.003 | 77.2 | Silt to clear Slight odor |
| 3 | 65.11 | 110.22 | 29.3 | 100 | 6/26/2018 | 268 | 984 | <0.001 | <0.001 | <0.001 | <0.003 | 130 | Silt to clear Slight odor |
| 3 | 65.26 | 110.22 | 29.2 | 100 | 9/18/2018 | 236 | 584 | <0.001 | <0.001 | <0.001 | <0.003 | 91.1 | Silt to clear Slight odor |
| 3 | 65.28 | 110.22 | 29.2 | 100 | 12/20/2018 | 108 | 474 | <0.001 | <0.001 | <0.001 | <0.003 | 60.9 | Silt to clear Slight odor |
| 3 | 65.49 | 110.22 | 29 | 100 | 3/25/2019 | 88 | 614 | <0.001 | <0.001 | <0.001 | <0.003 | 88 | Silt to clear Slight odor |
| 3 | 65.63 | 110.22 | 29 | 100 | 6/24/2019 | 100 | 627 | <0.001 | <0.001 | <0.001 | <0.003 | 55 | Silt to clear Slight odor |
| 3 | 65.7 | 110.22 | 29 | 100 | 9/23/2019 | 152 | 634 | <0.001 | <0.001 | <0.001 | <0.003 | 92 | Silt to clear Slight odor |
| 3 | 65.88 | 110.22 | 29 | 100 | 12/9/2019 | 96 | 628 | <0.001 | <0.001 | <0.001 | <0.003 | 58 | Silt to clear Slight odor |
| 3 | 66.03 | 110.22 | 28.7 | 100 | 3/19/2020 | 88 | 616 | <0.001 | <0.001 | <0.001 | <0.003 | 88 | Silt to clear Slight odor |
| 3 | 66.31 | 110.22 | 28.5 | 100 | 9/28/2020 | 88 | 544 | XXX | XXX | XXX | XXX | 79.8 | Silt to clear Slight odor |
| 3 | 66.57 | 110.22 | 28 | 100 | 3/25/2021 | 112 | 698 | XXX | XXX | XXX | XXX | 99.2 | Silt to clear Slight odor |
| 3 | 66.62 | 110.22 | 28 | 100 | 6/25/2021 | 200 | 781 | XXX | XXX | XXX | XXX | 87.6 | Silt to clear Slight odor |
| 3 | 66.69 | 110.22 | 28 | 100 | 9/24/2021 | 200 | 760 | XXX | XXX | XXX | XXX | 88.2 | Silt to clear Slight odor |
| 3 | 66.55 | 110.22 | 28 | 100 | 12/1/2021 | 228 | 776 | XXX | XXX | XXX | XXX | 74.4 | Silt to clear Slight odor |





April 05, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: HOBBS K-29 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 03/26/21 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/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:
 03/26/2021
 Sampling Date:
 03/25/2021

 Reported:
 04/05/2021
 Sampling Type:
 Water

Project Name: HOBBS K-29 BOOT Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T18S-R38E-SEC29 K-LEA CTY., NM

Sample ID: MONITOR WELL # 1R (H210766-01)

| Chloride, SM4500CI-B | mg, | /L | Analyze | d By: GM | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 292 | 4.00 | 03/29/2021 | ND | 104 | 104 | 100 | 3.92 | |
| Sulfate 375.4 | mg, | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 75.3 | 10.0 | 03/31/2021 | ND | 22.0 | 110 | 20.0 | 0.273 | |
| TDS 160.1 | mg | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 913 | 5.00 | 03/31/2021 | ND | 543 | 109 | 500 | 1.52 | |
| | | | | | | | | | |

Sample ID: MONITOR WELL # 2 (H210766-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: GM | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 72.0 | 4.00 | 03/29/2021 | ND | 104 | 104 | 100 | 3.92 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 99.6 | 25.0 | 03/31/2021 | ND | 22.0 | 110 | 20.0 | 0.273 | |
| TDS 160.1 | mg | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 517 | 5.00 | 03/31/2021 | ND | 543 | 109 | 500 | 1.52 | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/26/2021 Sampling Date: 03/25/2021 Reported: 04/05/2021 Sampling Type: Water Project Name: HOBBS K-29 BOOT Sampling Condition: Cool & Intact Sample Received By: Project Number: NOT GIVEN Tamara Oldaker

Project Location: T18S-R38E-SEC29 K-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H210766-03)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: GM | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 112 | 4.00 | 03/29/2021 | ND | 104 | 104 | 100 | 3.92 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 99.2 | 25.0 | 03/31/2021 | ND | 22.0 | 110 | 20.0 | 0.273 | |
| TDS 160.1 | mg | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 698 | 5.00 | 04/01/2021 | ND | 543 | 109 | 500 | 1.52 | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



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

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 whistoever 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

| Turn Around Time ~ 24 | |
|-----------------------|----------------------------|
| | |
| | 2 3:13:18 PM |
| | Imaging: 12/16/2022 3:13:1 |

| 0 6 0 4 | | | | | | | | | | | | | | _ | | | CL | IAIN | 1-0 | F-C | 115 | STC | וחו | Y A | ND | AN | IAI | | - | - | | - | ST | 1 | |
|--|------------------|--------------|-----------|----------|-------------|----------|-------|------------------|-----------|--------|---------------------|------------|--|-------|----------------|----------------|--|-----------|--------|----------------|---------------------|--|----------|----------------------|----------------------------|----------------|----------------------|--------------|------------------|-------|-----------------------------|----------|------------------------|-----------|--------------------|
| Cardin 101 East Marland - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476 Cardin | ıal | L | al | bo | r | at | to | r | ie | s, | I | n | c. | | | | CI | | LAB | | | No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other party of the Concession, Name of | | | | | | _ | | | | | | | 5 of 5 |
| Company Name: RICE Operating Company | | RICE | | Comp | | Cor | mpa | any | , | | PO | # | | | | | | | | | | | | | EQI /leth | | | | | | | | | | Page |
| Project Manager: | | | - | Addre | ess: | | | | (S | treet, | | , Zip) | | | 1 | 1 | 1 | 1 | 1 | | 1 | | | | | | | | | | | - | | 1 | Ц |
| Katie Jones Address: (Street, City, Zip) | - | 122 W | OF STREET | r Stre | THE RESERVE | HODDS | s, Ne | W IVI | exic | 0 002 | Fax | | | | | | | 1 | 3 | | | | | | | | | | | | | | | | |
| 122 W Taylor Street ~ Hobbs, New Mexico 88240 | -ax #: | (575) | 393 | 3-91 | 174 | | | | | | (5 | 75)3 | 397-1 | 471 | | | (S) | 00/00 | DDIED | | | | | | | | | | | | - | | | | |
| Priorie #. | (575) | 397- | 147 | 1 | | | | | 1 | | | | | | | | J (C3 | 004 | | | | | | | | | | | | | | | | | |
| Project #: Project Name: Hobbs K-29 Boot | | | | | 1 | 1 | | 1 | _ | | | | | | | | TPH 418.1/TX1005 / TX1005 Extended (C35) | PAH 8270C | Se H | | | | | | | | | | | | | | | | |
| Project Location: | | | _ | Samp | oler S | Signat | ufe: | R | ozar | ine Jo | ohns | on (5) | 75)631- | 9310 | | | 05 Ex | i | 2 '2 | | | | | | 625 | | | | | | Anions (CI, SO4, CO3, HCO3) | | | | 24 Hours |
| T18S-R38E-Sec29 K ~ Lea County - New Me | exico | | -34 | MA | ATR | X | 5 | PR | | ERV | | /E | SAM | PLING | | | TX10 | 1 | S C C | | | | | 324 | 270C | | 80 | | | a, K | 03, F | | lids | | ~ 24 |
| H210766 | | S | Н | 1417 | | | 1 | | ME | THO | _ | ì | | | 22 | 20 | / 500 | | AS B | | atiles | s | | 60B/6 | /ol. 8 | 8 | 14/60 | | ent | Ng, N | 04, C | | og pa | | Time |
| LAB# FIELD CODE | C)om | INER | | | | | | NOA I | | | HDP | | 21) | | 21B/6 | 1B/60 | 1/TX1 | 0 | als Ag | atiles | ni Vol | sticide | | ol. 82 | emi. | 182/60 | 808 | S. P. | Cont | (Ca, | CI, SC | | ssolve | S | punc |
| / LAB USE \ | o or ((| NTA | ER | | | SLUDGE | 1 | HCL (4 40ml VOA) | 200 | NaHSO4 | ICE (1-1Liter HDPE) | ¥ | DATE (2021) | | MTBE 8021B/602 | BTEX 8021B/602 | 418. | 827(| Meta | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | Moisture Content | tions | ons (| Sulfates | Total Dissolved Solids | Chlorides | Turn Around Time ~ |
| ONLY | (G)rab or (C)omp | # CONTAINERS | WATER | SOIL | AIR | SLU | 3 | | E CONT | H,SO, | N I | NONE | DAT | TIME | MTB | BTE | TPH | PAH | Tota | 덛 | TOT | 걸 | RCI | gC | gC | PC | Pes | 18 | Š | Ca | A | + | - | ਨ X | P |
| Monitor Well #1R | G | 1 | Х | | | | I | \perp | \perp | 1 | 1 | _ | 3/25 | - | - | - | | H | + | + | \vdash | \vdash | \vdash | \vdash | + | + | + | + | + | + | + | X | X | X | \vdash |
| Monitor Well #2 | G | 1 | X | _ | | \vdash | + | + | + | + | 1 | _ | 3/25 | + | + | \vdash | | H | + | + | + | \vdash | \vdash | + | + | + | † | † | \dagger | T | T | - | х | Х | |
| 3 Monitor Well #3 | G | 1 | X | - | \vdash | H | + | + | + | + | +1 | + | 3/25 | 12:30 | ╫ | + | | H | + | † | T | T | T | T | T | | T | I | | I | | | | | |
| | _ | | + | \vdash | \vdash | \vdash | + | + | + | + | + | + | \vdash | T | T | T | | | | T | | | | I | I | L | | \perp | | 1 | 1 | 1 | Н | | \sqcup |
| | | | + | \vdash | \vdash | H | + | \forall | \forall | \top | † | \top | | | I | | | | | 1 | | | L | 1 | 1 | 1 | + | \perp | + | + | + | + | \vdash | _ | \vdash |
| | | | T | | | | 7 | | | | I | | | | L | _ | | Ц | 4 | + | 1 | 1 | 1 | + | + | + | + | + | + | + | + | + | \vdash | _ | H |
| | | | | | | | | | | | | | | _ | ╀ | - | - | Н | + | + | + | + | \vdash | + | + | + | + | + | + | + | + | + | \vdash | | H |
| Relinquished by:// Pate: Time: | | | I | | L | | _ | 4 | 1 | + | + | \perp | _ | - | ╀ | + | \vdash | Н | + | + | + | + | + | + | + | + | + | + | + | + | + | + | \vdash | | \Box |
| | | | | | L | | | | | to: | | Time | | | Pi | none | Res | ults | + | Y | es | + | No | 0 | | _ | _ | _ | _ | _ | | | | | |
| Relinquished by: Date: Time: | Recei | // | | | | 11/2 | 11 | 10 | | ite: | | | | 615 | + | ax Re | _ | | + | + | es | T | N | 0 | A | dditi | ona | al Fa | x N | umt | er: | | | | |
| Royaline Johnson 3/26/2021 16:15 | Recei | MU | | | rator | y Sta | off) | X | | ate: | | 7/ Time | Control of the last of the las | 613 | | EMA | | | | 1 | - | _ | | aparox and | | | | | | | | | | | |
| Relinquished by. Date: Time: | Recei | veu Dy | y. (L | Labo | iatoi | , 0.0 | | | _ | | _ | | | | F | mail | Res | ults | : | KIOI | nes | (0) | ice | SW | d.c | om | _ | _ | | _ | _ | _ | | _ | |
| | - | 0 1 | :4: | | | | | CHE | CKI | ED BY | 1. | | | | 1 | | | | | r | oza | ann | e@ | sd | acr | es. | COI | m | | | | | | | |
| Delivered By: (Circle One) | Sample | e Cona | Co | ol | Inta | ct | | OTTE | _0111 | | | | | | ı | | | | | | | | | | | | | | | | | | | | |
| | | Yes | L. | Ye | S | 1 | Γ. | (Initi | ials) | | | | | | ١ | | | | | | | | | | | | | | | | | | | | |
| Delivered By: (Circle One) Sampler - UPS - Bus - Other: | | No | | No | | | | 1 | - | | | | | | _ | | - | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



July 02, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: HOBBS K-29 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 06/29/21 16:45.

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/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

(0,0)00.1

Received: 06/29/2021 Sampling Date: 06/25/2021 Reported: 07/02/2021 Sampling Type: Water

Project Name: HOBBS K-29 BOOT Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T18S-R38E-SEC29 K-LEA CTY., NM

Sample ID: MONITOR WELL # 1R (H211684-01)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 236 | 4.00 | 06/30/2021 | ND | 104 | 104 | 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* | 126 | 25.0 | 06/30/2021 | ND | 22.0 | 110 | 20.0 | 17.3 | |
| TDS 160.1 | mg, | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 927 | 5.00 | 07/02/2021 | ND | 520 | 104 | 500 | 1.65 | |
| | | | | | | | | | |

Sample ID: MONITOR WELL # 2 (H211684-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 68.0 | 4.00 | 06/30/2021 | ND | 104 | 104 | 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* | 91.6 | 25.0 | 06/30/2021 | ND | 22.0 | 110 | 20.0 | 17.3 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 539 | 5.00 | 07/02/2021 | ND | 520 | 104 | 500 | 1.65 | |

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg & Freene



Analytical Results For:

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

· ,

Received: 06/29/2021 Sampling Date: 06/25/2021 Reported: 07/02/2021 Sampling Type: Water Project Name: HOBBS K-29 BOOT Sampling Condition: Cool & Intact Sample Received By: Project Number: NOT GIVEN Tamara Oldaker

Project Location: T18S-R38E-SEC29 K-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H211684-03)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 200 | 4.00 | 06/30/2021 | ND | 104 | 104 | 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* | 87.6 | 25.0 | 06/30/2021 | ND | 22.0 | 110 | 20.0 | 17.3 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 781 | 5.00 | 07/02/2021 | ND | 520 | 104 | 500 | 1.65 | |

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 whistoever 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



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

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

| P-4 |
|----------------|
| |
| 90 |
| |
| |
| 00 |
| - |
| 4.1 |
| 000 |
| 44.3 |
| C |
| 2.3 |
| 24 |
| 9 |
| C |
| < |
| 6 |
| - |
| |
| C) |
| - |
| - |
| |
| 0.0 |
| Photo: |
| |
| - |
| 0.0 |
| - |
| 2 |
| - Printer |
| Property lives |
| _ |
| 0 |
| 100 |
| g |
| |
| 2 |
| S |
| |
| 0 |
| - |
| ~ |
| \approx |
| |

| \$ 6 6 | | | | | | | | | | | | | | | | | | | | | | | | | F | age | e | 1 | of | 1 | _ |
|--|-----------|-----------------------------|-------|----------|--------|------------------|-----------|----------|--------------|---------------------|-------------|--------|----------------|----------------|--|-----------|-------------------------------------|----------------|----------------|-----------------|-----|----------------------|----------------------------|----------------|-------|------------------|-------------------------|------------------|---------------------------------|-----------|-----------------------------|
| | 1 | Τ. | _ 1 | | | 40 | : | ~~ | | T., | _ | | | | CH | IAI | N-0 | F-C | US | то | DY | AN | ID / | ANA | LY | SIS | RE | EQL | JES1 | | of 5 |
| 101 East Mariand - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476 | lai | L | 41 | 001 | a | ιο | rı | es | 9 | III | C. | | | | | | LAB | Ord | er II |)#_ | | | | | | | | _ | | | 5.5 |
| Company Name: | | | | ompany | | | | | P | O# | | | Г | | | | | Al | IAL | YS | IS | RE | QU | EST | | | | | | | Page 5 |
| RICE Operating Company Project Manager: | F | RICE | - | erating | g Co | ompa | iny | /Street | C | ity, Zip | | | l | | | | | | | | | | | No. | | | | | | | " |
| Katie Jones | | 00 W.T. | | | Llabi | he New | u Man | | | | , | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | 1 | | 1 | | |
| Address: (Street, City, Zip) | 11 | 22 VV 18 | - | Street ~ | HODI | DS, Ne | w iviex | (100 00. | and the last | ax#: | | | 1 | | | 1. | | | | | | | | | | | | | | | |
| 122 W Taylor Street ~ Hobbs, New Mexico 88240 | (| 575) | | 3-9174 | 1 | | | | | | 397- | 1471 | ı | | | 18 | 8 | | | | | | | | | | | | | | |
| Phone #: | ax #: | | | | / | |) | | | - | | | 1 | | 2 | 100 | NGO N | | 1 | | | | | | | | | | | | |
| | (575) 3 | 397-1 | 471 | | | / | /_ | | | | | | | | (3 | 3 | | | | | | | | | | | | | | | |
| Project #: Project Name: Hobbs K-29 Boot | | / | | | | 1 | | | | | | | | | nded | 1 | Se Hg | | | | | | | | | | | | | | |
| Project Location: | × | | -8 | ampler | Signa | ture: | Roz | anne J | ohn | ison (5 | 75)631 | -9310 | ı | | Exte | d | Pbs | | | | | 4 | | | | | | 33) | | | nrs |
| T18S-R38E-Sec29 K ~ Lea County - New Me | exico | | > | 9 | _ | _ | DDE | CEDV | AT | IV/E | _ | | | | 1005 | 4 | S S | | | | | 00/0 | 20/2 | | | | | 오 | | | 유 |
| H211684 | | | | MATR | IX | | | SERV | | | SAN | IPLING | | | TPH 418.1/TX1005 / TX1005 Extended (C35) | PAH 8270C | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | | SS | | 700 | GC/MS VOI. 0200D/024 | GC/MS Semi. Vol. 62/UC/023 | 808 | | | Cations (Ca, Mg, Na, K) | соз, нсоз) | Sulfates Total Dissolved Solids | | Turn Around Time ~ 24 Hours |
| LAB# | (C)omb | # CONTAINERS | | | | 8 | | | | DPE) | | | 602 | 802 | 100 | 1 | y As | | Semi Volatiles | es | 000 | No. | 9 8 | PCB's 606Z/606 | | Moisture Content | Mg, | 9, | s pa | | Time |
| FIELD CODE | ő | Z | 1 | | | HCL (4 40ml VOA) | | | 1 | ICE (1-1Liter HDPE) | 12 | | MTBE 8021B/602 | BTEX 8021B/602 | ĔI. | ပ္ဆုဒ် | als | TCLP Volatiles | 2 | ICLP Pesticides | 1 | 9 3 | GC/MS Semi. Vo | 80 | 무 등 | S | Ça j | Anions (CI, SO4, | Nos | | pur |
| / LAB USE | ö | F I | 1 | | lg | (4 40 | 8 | 00 | 4 | | 100 | | 80 | 80% | 418. | 827(| Met | No. | Sen | Pes | 1 | 2 0 | 0 0 | oo d | TSS | nre |) Su |) SI | Dis | ides | Aroi |
| ONLY | (G)rab or | 8 | WAIEK | SOIL | SLUDGE | 딩 | HNO3 | NaHSO4 | | NONE (3-1 | DATE (2021) | TIME | TBE | Ĕ | 핆 | F : | SLP SE | SLP | SLP. | S C L | 5 8 | | | s do s | 9 | loist | atio | nion | Sulfates Total Dis | Chlorides | En |
| | | - | - | Ø K | S | I | I | ZI | + | _ | - | 1 | - | B | F | 9 | FF | F | F | - 10 | 2 (| 2 0 | 0 0 | 10 | - 100 | 2 | 0 | - | _ | - | - |
| Monitor Well #1R | G | | X | _ | Н | + | | \vdash | + | 1 | 6/25 | _ | - | Н | + | + | + | Н | + | + | + | + | + | + | + | - | \vdash | - | XX | + | - |
| 2 Monitor Well #2 | G | - | X | | Н | + | | \vdash | + | 1 | 6/25 | _ | ┡ | Н | + | + | + | Н | + | + | + | + | + | + | + | \vdash | Н | - | XX | + | - |
| 3 Monitor Well #3 | G | 1 | X | _ | Н | _ | | \vdash | + | 1 | 6/25 | 12:05 | - | Н | + | + | + | Н | + | + | + | + | + | + | + | - | Н | \vdash | XX | X | - |
| | _ | _ | + | _ | Н | + | \vdash | \vdash | + | + | _ | - | ┡ | Н | + | + | + | Н | + | + | + | + | + | + | + | - | Н | \vdash | + | - | |
| | | _ | 4 | | Н | \perp | | \vdash | + | \perp | _ | - | ┡ | Н | + | + | + | Н | + | + | + | + | + | + | + | - | Н | Н | + | - | |
| | | _ | 4 | | Н | \perp | | \vdash | + | _ | _ | - | ┡ | \sqcup | - | + | + | Н | + | + | + | + | + | + | + | \vdash | Н | Н | + | - | - |
| | | _ | 4 | | Н | \perp | \perp | 1 | + | _ | _ | _ | ┡ | Н | 4 | + | + | Н | + | + | + | + | + | + | + | - | Н | H | + | - | - |
| | | _ | 4 | | Н | _ | | 1 | + | _ | _ | - | 1 | Н | - | + | + | Н | + | + | + | + | + | + | + | - | H | H | + | - | - |
| No. | | | 1 | | Ц | _ | | | 1 | _ | _ | - | _ | Н | 4 | 4 | + | Н | 4 | + | + | + | + | + | + | - | H | H | + | - | - |
| 33 | | | | | | | | | | | | | L | | | | - | | 4 | 4 | _ | | | | | | | | | | |
| Relinquished by: Date: Time: | Receive | d by: | | 111 | 1 | 11 | | ate: | | Time: | 10 | 645 | - | one F | _ | lts | + | Yes | + | 1 | lo | | | | | | | - | | | |
| | Bu | ware | 10 | La | al | SU | 2 | 6-0 | 29 | 7-2 | | | | x Res | nonimeter . | | L | Yes | | I | lo | Α | Addit | iona | Fax | Nur | mbe | r: | | | |
| Relinquished by / Date: Time: | Receive | d By: | (Lal | oorator | y Sta | ff | D | ate: | | Time: | | | RE | MAR | KS: | | | | | | | | | | | | | | | | |
| Relinquished by// Date: Time:4 F | | | | | | | | | | | | | En | nail R | esu | lts: | kj | one | sa | rice | esw | d.c | om | | | | | | | | |
| Delivered By: (Circle One) | Sample C | ample Condition CHECKED BY: | | | | | | | | 1 | | | | | ro | zan | ne(| DSC | laci | res. | con | n | | | | | | | | | |
| ä | | - | ool | Intac | t | | *** - * - | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | es | ٦. | Yes | | (In | itials) | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampler - UPS - Bus - Other: | N | lo | N | No | Ц |) | | - | - | | | | L | | | | | | | | _ | - | | | | _ | | - | | | |
| Sampler - UPS - Bus - Other: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| oc. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ž | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



October 05, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: HOBBS K-29 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 09/29/21 14:45.

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/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. Keene

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



09/24/2021

Water

Analytical Results For:

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

Fax To: (575) 397-1471

Received:09/29/2021Sampling Date:Reported:10/05/2021Sampling Type:Project Name:HOBBS K-29 BOOTSampling Condition:

Project Name: HOBBS K-29 BOOT Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T18S-R38E-SEC29 K-LEA CTY., NM

Sample ID: MONITOR WELL # 1R (H212711-01)

| mg | /L | Analyze | d By: AC | | | | | |
|--------|---|------------|---|---|--|---|---|--|
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 288 | 4.00 | 09/30/2021 | ND | 96.0 | 96.0 | 100 | 4.08 | |
| mg | /L | Analyze | d By: GM | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 79.3 | 25.0 | 09/30/2021 | ND | 18.5 | 92.4 | 20.0 | 15.0 | |
| mg | /L | Analyze | d By: GM | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 939 | 5.00 | 10/04/2021 | ND | 253 | 84.3 | 300 | 1.89 | |
| | Result 288 mg, Result 79.3 mg, Result | 288 | Result Reporting Limit Analyzed 288 4.00 09/30/2021 mg/L Analyze Result Reporting Limit Analyzed 79.3 25.0 09/30/2021 mg/L Analyze Result Reporting Limit Analyze | Result Reporting Limit Analyzed Method Blank 288 4.00 09/30/2021 ND mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank 79.3 25.0 09/30/2021 ND mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank | Result Reporting Limit Analyzed Method Blank BS 288 4.00 09/30/2021 ND 96.0 mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank BS 79.3 25.0 09/30/2021 ND 18.5 mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank BS | Result Reporting Limit Analyzed Method Blank BS % Recovery 288 4.00 09/30/2021 ND 96.0 96.0 mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank BS % Recovery 79.3 25.0 09/30/2021 ND 18.5 92.4 mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank BS % Recovery | Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 288 4.00 09/30/2021 ND 96.0 96.0 100 Mesult Reporting Limit Analyzed By: GM BS % Recovery True Value QC 79.3 25.0 09/30/2021 ND 18.5 92.4 20.0 mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC | Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 288 4.00 09/30/2021 ND 96.0 96.0 100 4.08 mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 79.3 25.0 09/30/2021 ND 18.5 92.4 20.0 15.0 mg/L Analyzed By: GM Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD |

Sample ID: MONITOR WELL # 2 (H212711-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 76.0 | 4.00 | 09/30/2021 | ND | 96.0 | 96.0 | 100 | 4.08 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 103 | 25.0 | 09/30/2021 | ND | 18.5 | 92.4 | 20.0 | 15.0 | |
| 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 | 10/01/2021 | ND | 253 | 84.3 | 300 | 1.89 | |

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 whistoever 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. Keine



Analytical Results For:

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

Received: 09/29/2021

Reported: 10/05/2021
Project Name: HOBBS K-29 BOOT
Project Number: NOT GIVEN

Project Location: T18S-R38E-SEC29 K-LEA CTY., NM

Sampling Date: 09/24/2021 Sampling Type: Water

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

Sample ID: MONITOR WELL # 3 (H212711-03)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 200 | 4.00 | 09/30/2021 | ND | 96.0 | 96.0 | 100 | 4.08 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 88.2 | 25.0 | 09/30/2021 | ND | 18.5 | 92.4 | 20.0 | 15.0 | |
| TDS 160.1 | mg | /L | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 760 | 5.00 | 10/04/2021 | ND | 253 | 84.3 | 300 | 1.89 | |

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 whistoever 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



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

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

| - | |
|-----------------|---|
| | |
| | |
| - 1 | |
| - 00 | |
| 90 | |
| _ | |
| | |
| - 523 | |
| - | |
| | |
| 0 | |
| C | |
| _ Ci | |
| - 6 | |
| \sim | |
| - 5.4 | |
| <i>'</i> 0 | |
| - | |
| - | |
| 6.4 | |
| - | |
| ٠. | |
| - 64 | |
| Photo | ١ |
| 5 | |
| | |
| 2 | ١ |
| 2 | |
| Philips 1990 | |
| | |
| | |
| .0 | |
| ~~ | |
| - | |
| 2 | |
| ~ ~ | |
| - 9 | |
| | |
| 2 | |
| Ба | |
| | |
| Ба | |

| 01 East Marland - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476 | na | lI | la | b | 0 | ra | ıt | 01 | ri | es | , | Ir | ıc. | , | H | | | HA | Contract of the last | | | rID | | CONTRACTOR OF THE PERSON | ANE | A | NA | LYS | SIS | REC | UE | ST | |
|---|------------------|------------------|-------|------|-------|--------|-------|------------------|------------------|--------------------------------|---------------------|-----------------------|-------------|--------|----------------|----------------|--|--------------|---|----------------|---------------------|-----------------|------|--------------------------|----------------------------|----------------|----------------------|--------------|------------------|-----------------------------|----------|------------------------|-----------|
| ompany Name: RICE Operating Company oject Manager: | | BILL | | per | atin | g C | om | par | ny | | | PO# | | | T | | | | | | | | | S R | | | _ | | | | - | | |
| Katie Jones | | 122 W | / Tay | | reet | | obs, | New | | | | ity, Zip |) | | 7 | | | | 1 | 1 | AIT CIE | e or . | Spec | cify f | vietr | loa r | No.) | 1 1 | ı | ı | 1 1 | 1 | 1 |
| Idress: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 none #: | | (575 | | Pho | ne#: | | | | | | F | ax#: | 397- | -1471 | 1 | | | | 7.00 | | | | | | | | | | | | | | |
| (575) 393-9174 | Fax #: (575 |) 397 | -147 | 71 | | | 7 | | | | | | | | 1 | | 322) | |)10B/2 | | | | | | | | | | | | | | |
| oject #: Project Name: Hobbs K-29 Boot | | | | | | / | | | | 2 | | | | | 1 | |) pepu | | e Hg 60 | е на | | | | | | | | | | | | | |
| oject Location: T18S-R38E-Sec29 K ~ Lea County - New M | /lexico | | | Sam | pler | Signa | afure | - | Roza | ne Jo | ohn | ison (5 | 75)63 | 1-9310 | 1 | | 05 Exte | | r Pb S | | | | | | 125 | | | | | (503) | | | |
| 212711 | | 0 | 1 | M | ATR | W. | 2 | PI | | ERV/ | | IVE | SAN | IPLING | | | /TX10 | | Sa Cd C | Da Ca | | | | 824 | 270C/6 | | 8 | | 5 | 03, HO | | spi | |
| LAB # FIELD CODE LAB USE ONLY | (G)rab or (C)omp | # CONTAINERS | WATER | SOIL | AIR | SLUDGE | | HCL (4 40ml VOA) | HNO ₃ | H ₂ SO ₄ | T CA Al Mar Library | NONE (1-1 Liter HDPE) | 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. | 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) | Sulfates | Total Dissolved Solids | Chlorides |
| Monitor Well #1R | G | 1 | Х | 0, | | 0) | | | | - | 1 | _ | - | 15:00 | | B | - | | FF | F | F | F | 2 | 0 | 0 | - A | P |) B | 2 0 | Ā | | | X |
| Z Monitor Well #2 | G | 1 | Х | | | | | | I | | 1 | 1 | 9/24 | _ | | | | | \dagger | \dagger | T | | | | \forall | \forall | | \top | \dagger | \top | X | _ | X |
| 3 Monitor Well #3 | G | 1 | Х | | | + | + | + | + | + | 1 | 1 | 9/24 | 12:35 | | | - | 4 | Ŧ | F | | | | | | 7 | | 1 | 1 | | Х | $\overline{}$ | х |
| | | | | | | | 1 | # | # | 1 | ļ | $ \downarrow $ | | | | | | \downarrow | # | t | | | | | 1 | 1 | | + | \pm | | | \pm | 1 |
| | | | | | | | 1 | 1 | \pm | \pm | \perp | \forall | | | | | + | + | + | + | Н | - | + | + | + | + | + | + | + | H | + | + | + |
| | | | H | | H | + | + | + | + | + | + | H | | | H | | + | + | Ŧ | F | H | | - | 1 | 7 | 7 | 7 | 1 | + | | 1 | | 1 |
| inquished by: Date: / Time: | D | | | | | | 1 | | 1 | | | | | | | | | I | İ | İ | | | | | \exists | 1 | | | + | H | 1 | + | + |
| zanyle yohnoon 912/20 14:45 | Receiv | ea by: WWA | LA | ,/ | | 1/2 | 1 | | Date | | | ime: | 1.11 | 10 | Pho | _ | _ | lts | + | Ye | - | - | No | | | | | | | | | | |
| inquished by. Date: Time: | Receiv | ed By: | (La | bora | tory | Staf | f) | ye | Date | 27° | and the same | ime: | 140 | か | Fax REM | | | | _ | Ye | \$ | | No | - | Addi | tiona | al Fa | ax Nu | umb | er: | | | |
| <u> </u> | | | | | | | | | | | | | | | Ema | ail R | esul | ts: | kj | one | es@ | dric | esv | vd.c | com | | | | | | | | |
| mpler UPS - Bus - Other: | | Condition Yes No | Cool | Yes | ntáct | 1 | (1 | Initial | s) | | | | | | | | | | | | | | | dac | | • | <u>m</u> | | | | | | |



December 08, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: HOBBS K-29 BOOT

Enclosed are the results of analyses for samples received by the laboratory on 12/03/21 8:35.

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/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. Keene

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: 12/03/2021 Reported: 12/08/2021 Project Name: HOBBS K-29 BOOT

Project Number: **NOT GIVEN**

Project Location: T18S-R38E-SEC29 K-LEA CTY., NM Sampling Date: 12/01/2021 Sampling Type: Water

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: MONITOR WELL # 1R (H213473-01)

| mg | /L | Analyze | d By: AC | | | | | |
|--------|---------------------------------------|---|---|---|---|--|---|--|
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 300 | 4.00 | 12/06/2021 | ND | 100 | 100 | 100 | 4.08 | |
| mg | /L | Analyze | d By: AC | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 78.0 | 25.0 | 12/06/2021 | ND | 23.6 | 118 | 20.0 | 0.636 | |
| mg | /L | Analyze | d By: AC | | | | | |
| Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| 955 | 5.00 | 12/07/2021 | ND | 501 | 100 | 500 | 0.398 | |
| | Result 300 mg, Result 78.0 mg, Result | 300 4.00 mg/L Result Reporting Limit 78.0 25.0 mg/L Result Reporting Limit | Result Reporting Limit Analyzed 300 4.00 12/06/2021 mg/L Analyze Result Reporting Limit Analyzed 78.0 25.0 12/06/2021 mg/L Analyze Result Reporting Limit Analyze | Result Reporting Limit Analyzed Method Blank 300 4.00 12/06/2021 ND mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank 78.0 25.0 12/06/2021 ND mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank | Result Reporting Limit Analyzed Method Blank BS 300 4.00 12/06/2021 ND 100 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS 78.0 25.0 12/06/2021 ND 23.6 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS | Result Reporting Limit Analyzed Method Blank BS % Recovery 300 4.00 12/06/2021 ND 100 100 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery 78.0 25.0 12/06/2021 ND 23.6 118 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery | Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 300 4.00 12/06/2021 ND 100 100 100 mg/L Analyzed By: AC Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 78.0 25.0 12/06/2021 ND 23.6 118 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 300 4.00 12/06/2021 ND 100 100 100 4.08 mg/L Analyzed By: AC Result Reporting Limit Analyzed By: AC BS % Recovery True Value QC RPD Result Reporting Limit Analyzed By: AC Recovery True Value QC RPD |

Sample ID: MONITOR WELL # 2 (H213473-02)

| Chloride, SM4500CI-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 80.0 | 4.00 | 12/06/2021 | ND | 100 | 100 | 100 | 4.08 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 91.0 | 25.0 | 12/06/2021 | ND | 23.6 | 118 | 20.0 | 0.636 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 572 | 5.00 | 12/07/2021 | ND | 501 | 100 | 500 | 0.398 | |

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. Keine



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 12/03/2021 Sampling Date: 12/01/2021 Reported: 12/08/2021 Sampling Type: Water Project Name: HOBBS K-29 BOOT Sampling Condition: Cool & Intact Sample Received By: Project Number: NOT GIVEN Tamara Oldaker

Project Location: T18S-R38E-SEC29 K-LEA CTY., NM

Sample ID: MONITOR WELL # 3 (H213473-03)

| Chloride, SM4500Cl-B | mg | /L | Analyze | d By: AC | | | | | |
|----------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride* | 228 | 4.00 | 12/06/2021 | ND | 100 | 100 | 100 | 4.08 | |
| Sulfate 375.4 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Sulfate* | 74.4 | 10.0 | 12/06/2021 | ND | 23.6 | 118 | 20.0 | 0.636 | |
| TDS 160.1 | mg | /L | Analyze | d By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| TDS* | 776 | 5.00 | 12/07/2021 | ND | 501 | 100 | 500 | 0.398 | |

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 whistoever 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



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

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 whistoever 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

101 East Marland - Hobbs, NM 88240 Cardinal Laboratories, Inc. CHAIN-OF-CUSTODY AND ANALYSIS REQUEST Tel (575) 393-2326 ₹ Fax (575) 393-2476 2 LAB Order ID# Company Name: **RICE Operating Company** RICE Operating Company **ANALYSIS REQUEST** roject Manager (Street, City, Zip) (Circle or Specify Method No.) Katie Jones 122 W Taylor Street ~ Hobbs, New Mexico 88240 (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240 (575) 393-9174 (575)397-1471 Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200. (575) 393-9174 TPH 418.1/TX1005 / TX1005 Extended (C35) (575) 397-1471 Project Name: Hobbs K-29 Boot Project Location: Rozanne Johnson (575)631-9310 T18S-R38E-Sec29 K ~ Lea County - New Mexico Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) 24 Hours ប៉ 8270C/625 PRESERVATIVE MATRIX SAMPLING GC/MS Vol. 8260B/624 TCLP Metals Ag As Ba Total Dissolved Solids # CONTAINERS Pesticides 8081A/608 TCLP Semi Volatiles LAB# (G)rab or (C)omp ICE (1-1Liter HDPE) MTBE 8021B/602 GC/MS Semi. Vol. Turn Around Time Moisture Content FIELD CODE TCLP Pesticides PCB's 8082/608 DATE (2021) TCLP Volatiles BOD, TSS, pH SLUDGE HCL (4 40ml LAB USE WATER NaHSO4 ONLY H₂SO₄ NONE Chlorides SOIL AIR Monitor Well #1R G 1 X 12/1 15:20 X Monitor Well #2 X G X 1 1 12/1 10:00 х Monitor Well #3 X X G X 1 1 12/1 12:50 х X elinguished by Date: Time: Received by: Date: Time: Phone Results Yes No 7:26 Fax Results Additional Fax Number: Received By: (Laboratory Staff REMARKS: 8:32 AM 12-3-21 2/3/2021

CHECKED BY:

elivered By:

(Circle One)

Other:

ampler - UPS - Bus

Sample Condition

Yes

Email Results:

kjones@riceswd.com

rozanne@sdacres.com

Released to Imaging: 12/16/2022 3:13:18 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

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 90552

CONDITIONS

| Operator: | OGRID: |
|------------------------|--|
| RICE OPERATING COMPANY | 19174 |
| 122 W Taylor | Action Number: |
| Hobbs, NM 88240 | 90552 |
| | Action Type: |
| | [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

CONDITIONS

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