# L Peter Galusky, Jr PE

## 5935 Exeter Cir Norcross, GA | 470 955-5335 | peter@bluerock.pro

April 1, 2022

## Bradford Billings

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

## RE: 2021 Annual Report

OCD Case Number: 1R427-87 Rice Operating Company – EME SWD System H-20 SWD (UL H, Sec 20, T20S, R37E)

Sent by E-mail

Mr. Billings:

This letter summarizes progress made over the past year pursuant to the NMOCD approved Corrective Action Plan for this site. An active SWD produced water disposal facility is operated at this location by Rice Operating Company (ROC). This project is located in the EME field approximately 4 miles south of Monument, New Mexico (Appendix, Figure 1). Over the course of 2021 we continued to monitor up and down-gradient monitor wells (Appendix, Figure 2) for chlorides and petroleum hydrocarbons (BTEX).

In brief:

Groundwater chloride concentrations are given in the Appendix, Figure 3 and Tables 1&2. Year average groundwater chloride concentrations (Table 1) in the near-source monitor well (MW-1) increased from 980 mg/l in 2020 to 1,028 mg/l in 2021. Year average groundwater chloride concentrations in the upgradient monitor well (MW-2) increased from 800 mg/l in 2020 to 963 mg/l in 2021. Year average groundwater chlorides in the down-gradient monitor well (MW-3) were essentially unchanged, measuring 1,020 mg/l in 2020 versus 1,013 mg/l in 2021. Year average groundwater chloride concentrations in the far down-gradient monitor well (MW-4) decreased from 1,220 mg/l in 2020 to 1,178 mg/l in 2021. Year average groundwater chloride concentrations in the far down-gradient monitor well (MW-4) decreased from 1,220 mg/l in 2020 to 1,178 mg/l in 2021. Year average groundwater chloride concentrations in the east side-gradient monitor well (MW-5) dropped from 1,035 mg/l in 2020 to 910 mg/l in 2021.

Groundwater benzene concentrations are given in the Appendix, Figure 4 and Tables 3&4. Year average groundwater benzene concentrations (Table 3) in the near-source monitor well (MW-1) dropped from 0.016 mg/l in 2020 to 0.012 mg/l in 2021. Year average benzene concentrations in the up-gradient

**REVIEWED** By Nelson Velez at 7:17 am, Oct 06, 2022

Review of 2021 Annual Report: <u>Content</u> satisfactory

1. Continue sampling on a bi-annual schedule at a minimum 2. OCD requires at least one groundwater flow direction map be included in future annual reports 3. Submit summarized activities completed and their results in a 2022 Annual Report. Submittal to OCD expected no later than March 31, 2023. 4. OCD requires an abatement option(s) be submitted for pre-approval no later than March 31, 2023 to accelerate the reduction in the current chloride & TDS levels found in all site monitor wells. OCD suggest arranging a meeting to discuss options to mitigate the elevated values.

## Rice Operating Company EME H-20 SWD Annual Report

monitor well (MW-2) has remained at the laboratory limit of detection of 0.001 mg/l from 2018 through 2021. Year average benzene concentrations in the downgradient monitor well (MW-3) dropped significantly from 0.030 mg/l in 2020 to 0.005 mg/l in 2021. Year average benzene concentrations in the far down-gradient monitor well (MW-4) has remained at the laboratory limit of detection of 0.001 mg/l from 2018 through 2021, as they have in the east side/down-gradient monitor well (MW-5) from 2011 through 2021.

Groundwater chloride concentrations in the down and side-gradient wells continue to slowly, if unevenly, converging toward the prevailing upgradient values (roughly 900 to 1,000 mg/l). Groundwater benzene concentrations in the near and down-source monitor wells are less than half of their high values of over a decade ago, but do not yet exhibit a clear and consistent downward trend. ROC will continue quarterly sampling in 2022.

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

Please contact either Katie Jones of Rice Operating Company or me if you have any questions or need additional information.

Thank you.

Sincerely,

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

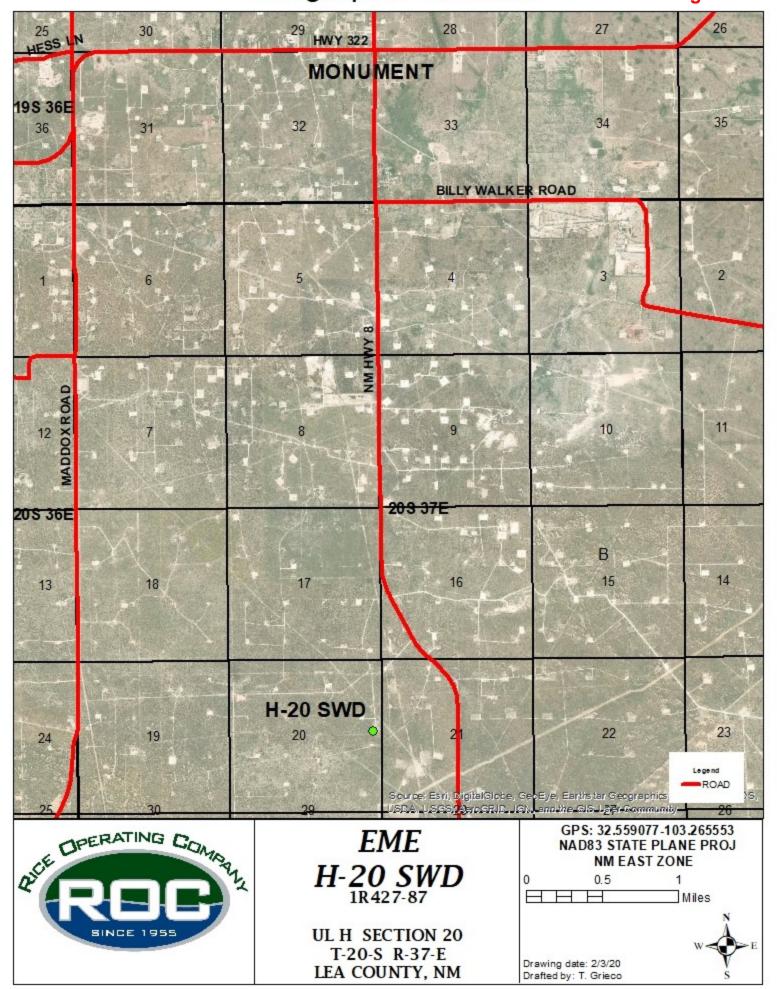


Copy: Rice Operating Company Attachments: ... as noted, above.

L Peter Galusky, Jr PE

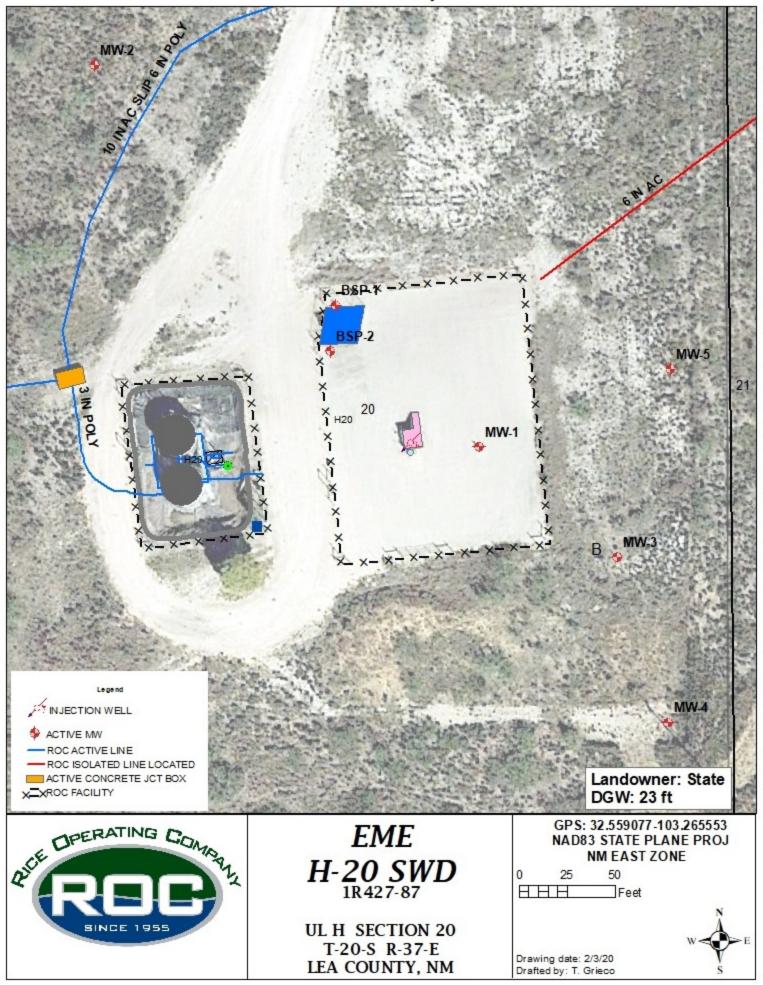
# Received by OCD: 3/15/2022 3:09:09 PM Geographic Location

Page 3 of 45 Figure 1

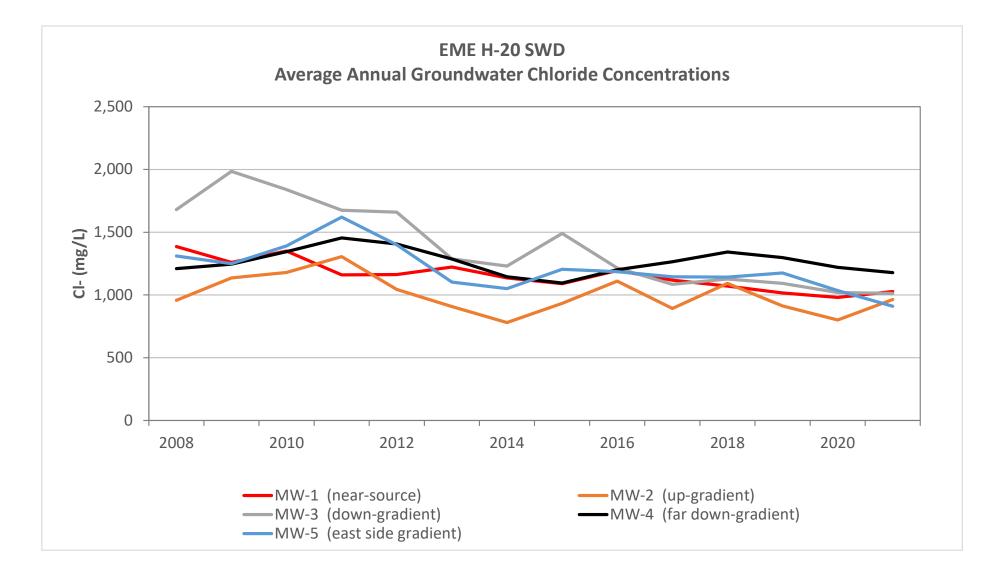


Released to Imaging: 10/6/2022 7:37:22 AM

Site Map



Released to Imaging: 10/6/2022 7:37:22 AM



## EME H-20 SWD Groundwater Chloride Concentrations

Average Annual Values (mg/l)

|      | MW-1          | MW-2          | MW-3            | MW-4       | MW-5       |
|------|---------------|---------------|-----------------|------------|------------|
|      | (near-source) | (up-gradient) | (down-gradient) | (far down- | (east side |
|      | (near source) | (up gradient) | (down gradient) | gradient)  | gradient)  |
| 2008 | 1,385         | 958           | 1,680           | 1,210      | 1,310      |
| 2009 | 1,260         | 1,135         | 1,985           | 1,245      | 1,250      |
| 2010 | 1,350         | 1,180         | 1,840           | 1,345      | 1,390      |
| 2011 | 1,160         | 1,305         | 1,675           | 1,455      | 1,620      |
| 2012 | 1,163         | 1,045         | 1,660           | 1,405      | 1,400      |
| 2013 | 1,223         | 908           | 1,288           | 1,285      | 1,103      |
| 2014 | 1,135         | 780           | 1,230           | 1,145      | 1,050      |
| 2015 | 1,090         | 932           | 1,490           | 1,095      | 1,205      |
| 2016 | 1,195         | 1,110         | 1,215           | 1,200      | 1,185      |
| 2017 | 1,118         | 893           | 1,085           | 1,265      | 1,145      |
| 2018 | 1,070         | 1,093         | 1,128           | 1,343      | 1,143      |
| 2019 | 1,015         | 913           | 1,093           | 1,298      | 1,175      |
| 2020 | 980           | 800           | 1,020           | 1,220      | 1,035      |
| 2021 | 1,028         | 963           | 1,013           | 1,178      | 910        |



•

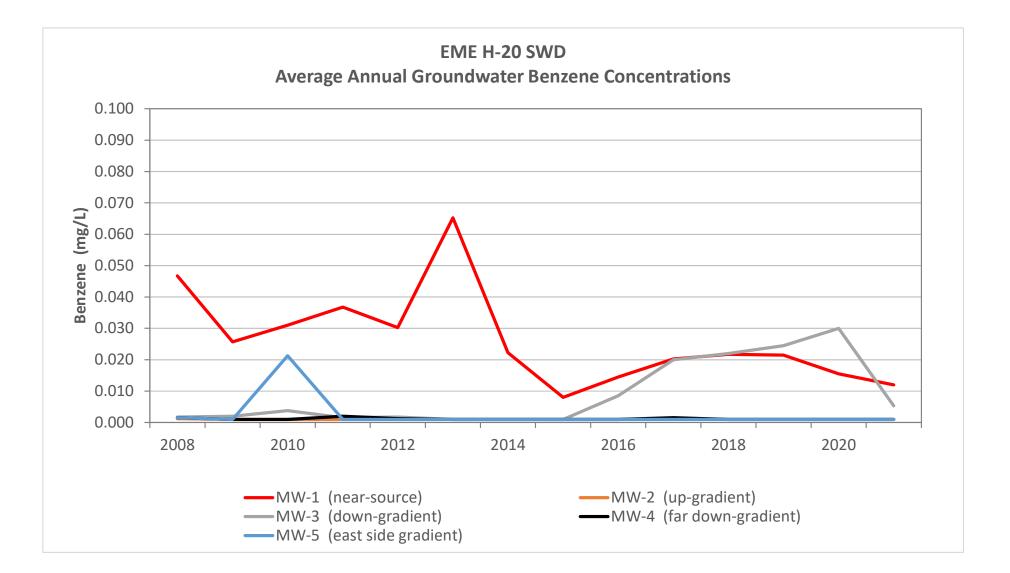
### EME H-20 SWD Groundwater Chloride Concentrations (mg/l)

|                        | <b>MW-1</b> (nea            | ar source)                   | <b>MW-2</b> (up <sub>§</sub> | gradient)                    | <b>MW-3</b> (dow            | ngradient)                   | <b>MW-4</b><br>downgra   | -                            | <b>MW-5</b> (ea<br>gradie |                              |
|------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|-----------------------------|------------------------------|--------------------------|------------------------------|---------------------------|------------------------------|
| Sample Date            | Measured<br>Value<br>(mg/I) | Calendar<br>Yr Avg<br>(mg/l) | Measured<br>Value<br>(mg/l)  | Calendar<br>Yr Avg<br>(mg/l) | Measured<br>Value<br>(mg/l) | Calendar<br>Yr Avg<br>(mg/l) | Measured<br>Value (mg/l) | Calendar<br>Yr Avg<br>(mg/l) | Measured<br>Value (mg/l)  | Calendar<br>Yr Avg<br>(mg/l) |
| 4/23/2007              | 1,939                       | (8/.)                        | (8//                         | (8/.)                        | (                           | (6/)                         |                          | (6//                         |                           | (6//                         |
| 7/12/2007              | 1,230                       |                              |                              |                              |                             |                              |                          |                              |                           |                              |
| 11/1/2007              | 1,260                       |                              | 1,100                        |                              | 1,710                       |                              |                          |                              |                           |                              |
| 1/18/2008              | 1,420                       | 1,385                        | 980                          | 958                          |                             | 1,680                        |                          |                              |                           |                              |
| 4/9/2008               | 1,380                       | 1,385                        | 840                          | 958                          |                             | 1,680                        |                          |                              |                           |                              |
| 7/21/2008              | 1,440                       | 1,385                        | 1,000                        | 958                          |                             | 1,680                        |                          |                              | 1,400                     |                              |
| 10/20/2008             | 1,300                       | 1,385                        | 1,010                        | 958                          |                             | 1,680                        |                          |                              | 1,220                     |                              |
| 2/5/2009               | 1,360                       | 1,365                        | 1,080                        | 1,135                        |                             | 1,985                        |                          | 1,245                        |                           | 1,250                        |
| 5/8/2009               | 1,300                       | 1,200                        |                              | 1,135                        |                             | 1,985                        |                          | 1,245                        |                           | 1,250                        |
| 8/14/2009              | 1,220                       | 1,200                        |                              | 1,135                        |                             | 1,985                        |                          | 1,245                        |                           | 1,250                        |
| 11/4/2009              | 1,180                       | 1,200                        |                              | 1,135                        |                             | 1,985                        |                          | 1,245                        |                           | 1,250                        |
| 2/17/2010              | 1,360                       | 1,200                        | 1,080                        | 1,135                        |                             | 1,840                        |                          | 1,345                        |                           | 1,390                        |
| 5/19/2010              | 1,300                       | 1,350                        | 1,080                        | 1,180                        |                             | 1,840                        |                          | 1,345                        |                           | 1,390                        |
| 8/11/2010              | 1,280                       | 1,350                        | 1,120                        | 1,180                        |                             | 1,840                        |                          | 1,345                        |                           | 1,390                        |
| 11/4/2010              | 1,400                       | 1,350                        | 1,120                        | 1,180                        |                             | 1,840                        |                          | 1,345                        |                           | 1,390                        |
| 2/25/2011              | 1,300                       | 1,350                        | 1,680                        | 1,180                        |                             | 1,675                        |                          | 1,345                        |                           | 1,620                        |
| 5/20/2011              | 1,100                       | 1,160                        | 1,030                        | 1,305                        |                             | 1,675                        |                          | 1,455                        |                           | 1,620                        |
| 8/11/2011              | 1,220                       | 1,160                        | 1,120                        | 1,305                        |                             | 1,675                        |                          | 1,455                        |                           | 1,620                        |
| 11/9/2011              | 1,080                       | 1,160                        | 1,140                        | 1,305                        |                             | 1,675                        |                          | 1,455                        |                           | 1,620                        |
| 2/8/2011               | 1,180                       | 1,100                        | 1,280                        | 1,305                        |                             | 1,660                        |                          | 1,435                        |                           | 1,020                        |
| 5/20/2012              | 1,170                       | 1,103                        | 1,000                        | 1,045                        |                             | 1,660                        |                          | 1,405                        |                           | 1,400<br>1,400               |
| 8/7/2012               | 1,160                       | 1,103                        | 1,040                        | 1,045                        |                             | 1,660                        |                          | 1,405                        |                           | 1,400<br>1,400               |
| 10/31/2012             | 1,100                       | 1,163                        | 1,020                        | 1,045                        |                             | 1,660                        |                          | 1,405                        |                           | 1,400<br>1,400               |
| 1/30/2013              |                             |                              |                              | 1,043<br>908                 |                             | 1,000                        |                          |                              |                           |                              |
| 5/14/2013              | 1,180                       | 1,223<br>1,223               | 1,040<br>960                 | 908<br>908                   |                             | 1,288                        |                          | 1,285                        |                           | 1,103<br>1,103               |
| 8/14/2013<br>8/14/2013 | 1,230                       | 1,223                        | 960<br>860                   | 908<br>908                   |                             | 1,288                        |                          | 1,285                        |                           | 1,103                        |
| 10/31/2013             | 1,360                       | 1,223                        | 770                          | 908<br>908                   |                             |                              |                          | 1,285                        |                           | 1,103<br>1,103               |
| 2/18/2014              | 1,120<br>1,100              | 1,225                        | 740                          | 908<br>780                   |                             | 1,288<br>1,230               |                          | 1,285<br>1,145               |                           | 1,103<br>1,050               |
| 4/24/2014              | 1,100                       | 1,135                        | 830                          | 780                          |                             | 1,230                        |                          |                              |                           | 1,050<br>1,050               |
| 4/24/2014<br>7/31/2014 | 1,080                       |                              | 730                          | 780                          |                             | 1,230                        |                          | 1,145                        |                           | 1,050                        |
| 11/6/2014              | 1,000                       | 1,135<br>1,135               | 820                          | 780                          |                             | 1,230                        |                          | 1,145                        |                           | 1,050                        |
| 2/12/2014              | 1,030                       | 1,135                        |                              | 932                          |                             | 1,230<br>1,490               |                          | 1,145<br>1,095               |                           | 1,030                        |
| 5/6/2015               | 1,030                       | 1,090                        |                              | 932                          |                             | 1,490<br>1,490               |                          | 1,095                        |                           | 1,205                        |
| 8/11/2015              | 1,120                       | 1,090                        |                              | 932                          |                             | 1,490<br>1,490               |                          | 1,095                        |                           | 1,205                        |
| 11/5/2015              | 1,090                       | 1,090                        |                              | 932                          |                             | 1,490<br>1,490               |                          | 1,095                        |                           | 1,205                        |
| 2/10/2016              | 1,120                       | 1,090                        | 1,160                        | 952<br>1,110                 |                             | 1,490                        |                          | 1,095                        |                           | 1,205                        |
| 5/9/2016               | 1,040                       | 1,195                        | 1,160                        | 1,110                        |                             | 1,215                        |                          | 1,200                        |                           | 1,185                        |
| 9/8/2010<br>9/8/2016   | 1,300                       | 1,195                        | 1,160                        | 1,110                        |                             | 1,215                        |                          | 1,200                        |                           | 1,185                        |
| 11/8/2016              | 1,200                       | 1,195                        | 960                          | 1,110                        |                             | 1,215                        |                          | 1,200                        |                           | 1,185                        |
| 2/16/2017              | 1,240                       | 1,195                        |                              | 893                          |                             | 1,215                        |                          | 1,200                        |                           | 1,185                        |
| 4/28/2017              | 1,240                       |                              |                              | 893                          |                             |                              |                          |                              |                           |                              |
| 4/28/2017<br>9/5/2017  | 1,040                       | 1,118<br>1,118               |                              | 893                          |                             | 1,085<br>1,085               |                          | 1,265<br>1,265               |                           | 1,145<br>1,145               |
| 9/5/2017<br>11/8/2017  | 990                         | 1,118                        |                              | 893                          |                             | 1,085                        |                          | 1,265                        |                           | 1,145<br>1,145               |
| 2/23/2017              | 990<br>1,040                | 1,118<br>1,070               |                              |                              |                             | 1,085                        |                          |                              |                           |                              |
|                        |                             | 1,070<br>1,070               |                              | 1,093                        |                             |                              |                          | 1,343                        |                           | 1,143<br>1 142               |
| 5/8/2018<br>8/30/2018  | 1,240                       | 1,070<br>1,070               |                              | 1,093                        |                             | 1,128                        |                          | 1,343                        |                           | 1,143<br>1 142               |
| 8/30/2018<br>11/8/2018 | 1,020<br>980                | 1,070<br>1,070               |                              | 1,093                        |                             | 1,128                        |                          | 1,343                        |                           | 1,143<br>1 143               |
| 2/27/2018              |                             |                              |                              | 1,093                        |                             | 1,128                        |                          | 1,343                        |                           | 1,143<br>1 175               |
| 2/2//2019              | 1,080                       | 1,015                        | 950                          | 913                          | 1,200                       | 1,093                        | 1,400                    | 1,298                        | 1,280                     | 1,175                        |

## Received by OCD: 3/15/2022 3:09:09 PM



|             | Measured | Calendar | Measured | Calendar | Measured | Calendar |              | Calendar |              | Calendar |
|-------------|----------|----------|----------|----------|----------|----------|--------------|----------|--------------|----------|
| Sample Date | Value    | Yr Avg   | Value    | Yr Avg   | Value    | Yr Avg   | Measured     | Yr Avg   | Measured     | Yr Avg   |
|             | (mg/l)   | (mg/l)   | (mg/l)   | (mg/l)   | (mg/l)   | (mg/l)   | Value (mg/l) | (mg/l)   | Value (mg/l) | (mg/l)   |
| 5/22/2019   | 990      | 1,015    | 1,000    | 913      | 1,090    | 1,093    | 1,230        | 1,298    | 1,280        | 1,175    |
| 8/26/2019   | 930      | 1,015    | 870      | 913      | 1,040    | 1,093    | 1,240        | 1,298    | 1,100        | 1,175    |
| 11/13/2019  | 1,060    | 1,015    | 830      | 913      | 1,040    | 1,093    | 1,320        | 1,298    | 1,040        | 1,175    |
| 3/2/2020    | 1,000    | 980      | 800      | 800      | 1,060    | 1,020    | 1,220        | 1,220    | 1,090        | 1,035    |
| 9/8/2020    | 960      | 980      | 800      | 800      | 980      | 1,020    | 1,220        | 1,220    | 980          | 1,035    |
| 3/4/2021    | 1,040    | 1,028    | 900      | 963      | 1,080    | 1,013    | 1,180        | 1,178    | 1,040        | 910      |
| 6/8/2021    | 920      | 1,028    | 1,000    | 963      | 960      | 1,013    | 1,100        | 1,178    | 960          | 910      |
| 9/7/2021    | 1,100    | 1,028    | 1,000    | 963      | 1,060    | 1,013    | 1,280        | 1,178    | 590          | 910      |
| 11/4/2021   | 1,050    | 1,028    | 950      | 963      | 950      | 1,013    | 1,150        | 1,178    | 1,050        | 910      |



Page 9 of 45 Figure 4

## EME H-20 SWD Groundwater Benzene Concentrations (mg/l)

|      | MW-1              | MW-2              | MW-3                | MW-4                    | MW-5  |
|------|-------------------|-------------------|---------------------|-------------------------|-------|
|      | (near-<br>source) | (up-<br>gradient) | (down-<br>gradient) | (far down-<br>gradient) | •     |
| 2008 | 0.047             | 0.001             | 0.002               | 0.002                   | 0.002 |
| 2009 | 0.026             | 0.001             | 0.002               | 0.001                   | 0.001 |
| 2010 | 0.031             | 0.001             | 0.004               | 0.001                   | 0.021 |
| 2011 | 0.037             | 0.001             | 0.002               | 0.002                   | 0.001 |
| 2012 | 0.030             | 0.001             | 0.002               | 0.001                   | 0.001 |
| 2013 | 0.065             | 0.001             | 0.001               | 0.001                   | 0.001 |
| 2014 | 0.022             | 0.001             | 0.001               | 0.001                   | 0.001 |
| 2015 | 0.008             | 0.001             | 0.001               | 0.001                   | 0.001 |
| 2016 | 0.015             | 0.001             | 0.009               | 0.001                   | 0.001 |
| 2017 | 0.020             | 0.001             | 0.020               | 0.002                   | 0.001 |
| 2018 | 0.022             | 0.001             | 0.022               | 0.001                   | 0.001 |
| 2019 | 0.022             | 0.001             | 0.025               | 0.001                   | 0.001 |
| 2020 | 0.016             | 0.001             | 0.030               | 0.001                   | 0.001 |
| 2021 | 0.012             | 0.001             | 0.005               | 0.001                   | 0.001 |

•

### EME H-20 SWD Groundwater Benzene Concentrations (mg/l)

|                        | MW-1 (near     | r source)          | <b>MW-2</b> (upg | radient)           | <b>MW-3</b> (dow  | ngradient)         | <b>MW-4</b><br>downgra | •                  | <b>MW-5</b> (ea<br>gradie |                    |
|------------------------|----------------|--------------------|------------------|--------------------|-------------------|--------------------|------------------------|--------------------|---------------------------|--------------------|
|                        | Measured       | Calendar<br>Yr Avg | Measured         | Calendar<br>Yr Avg | Measured<br>Value | Calendar<br>Yr Avg | Measured<br>Value      | Calendar<br>Yr Avg | Measured                  | Calendar<br>Yr Avg |
| Sample Date            | Value (mg/l)   | (mg/l)             | Value (mg/l)     | (mg/l)             | (mg/l)            | (mg/l)             | (mg/l)                 | (mg/l)             | Value (mg/l)              | (mg/l)             |
| 4/23/2007              | 0.060          |                    |                  |                    |                   |                    |                        |                    |                           |                    |
| 7/12/2007              | 0.068          |                    |                  |                    |                   |                    |                        |                    |                           |                    |
| 11/1/2007              | 0.059          |                    | 0.002            |                    | 0.002             |                    |                        |                    |                           |                    |
| 1/18/2008              | 0.052          | 0.047              | 0.001            | 0.001              |                   | 0.002              |                        |                    |                           |                    |
| 4/9/2008               | 0.032          | 0.047              | 0.001            | 0.001              |                   | 0.002              |                        |                    |                           |                    |
| 7/21/2008              | 0.048          | 0.047              | 0.002            | 0.001              |                   | 0.002              |                        | 0.000              |                           | 0.000              |
| 10/20/2008             | 0.055          | 0.047              | 0.001            | 0.001              |                   | 0.002              |                        | 0.000              |                           | 0.000              |
| 2/5/2009               | 0.031          | 0.026              | 0.001            | 0.001              |                   | 0.002              |                        | 0.001              |                           | 0.001              |
| 5/8/2009               | 0.031          | 0.026              | 0.001            | 0.001              |                   | 0.002              |                        | 0.001              |                           | 0.001              |
| 8/14/2009              | 0.024          | 0.026              | 0.001            | 0.001              |                   | 0.002              |                        | 0.001              |                           | 0.001              |
| 11/4/2009              | 0.017          | 0.026              | 0.001            | 0.001              |                   | 0.002              |                        | 0.001              |                           | 0.001              |
| 2/17/2010              | 0.030          | 0.031              | 0.001            | 0.001              |                   | 0.004              |                        | 0.001              |                           | 0.021              |
| 5/19/2010              | 0.006          | 0.031              | 0.001            | 0.001              |                   | 0.004              |                        | 0.001              |                           | 0.021              |
| 8/11/2010              | 0.014          | 0.031              | 0.001            | 0.001              |                   | 0.004              |                        | 0.001              |                           | 0.021              |
| 11/4/2010              | 0.074          | 0.031              | 0.001            | 0.001              |                   | 0.004              |                        | 0.001              |                           | 0.021              |
| 2/25/2011              | 0.033          | 0.037              | 0.001            | 0.001              |                   | 0.002              |                        | 0.002              |                           | 0.001              |
| 5/20/2011              | 0.056          | 0.037              | 0.001            | 0.001              |                   | 0.002              |                        | 0.002              |                           | 0.001              |
| 8/11/2011              | 0.034          | 0.037              | 0.001            | 0.001              |                   | 0.002              |                        | 0.002              |                           | 0.001              |
| 11/9/2011              | 0.024          | 0.037              | 0.001            | 0.001              |                   | 0.002              |                        | 0.002              |                           | 0.001              |
| 2/8/2012               | 0.028          | 0.030              |                  | 0.001              |                   | 0.002              |                        | 0.001              |                           | 0.001              |
| 5/20/2012              | 0.027          | 0.030              |                  | 0.001              |                   | 0.002              |                        | 0.001              |                           | 0.001              |
| 8/7/2012               | 0.040          | 0.030              |                  | 0.001              |                   | 0.002              |                        | 0.001              |                           | 0.001              |
| 10/31/2012             | 0.026          | 0.030              | 0.001            | 0.001              |                   | 0.002              |                        | 0.001              |                           | 0.001              |
| 1/30/2013              | 0.044          | 0.065              | 0.001            | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 5/14/2013              | 0.082          | 0.065              | 0.001            | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 8/14/2013              | 0.074          | 0.065              | 0.001            | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 10/31/2013             | 0.061          | 0.065              | 0.001            | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 2/18/2014              | 0.038          | 0.022              |                  | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 4/24/2014              | 0.037          | 0.022              |                  | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 7/31/2014              | 0.013<br>0.001 | 0.022              |                  | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 11/6/2014<br>2/12/2015 | 0.001          | 0.022<br>0.008     | 0.001<br>0.001   | 0.001<br>0.001     |                   | 0.001<br>0.001     | 0.001                  | 0.001<br>0.001     |                           | 0.001<br>0.001     |
| 5/6/2015               | 0.029          | 0.008              | 0.001            | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 8/11/2015              | 0.001          | 0.008              |                  | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 11/5/2015              | 0.001          | 0.008              |                  | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 2/10/2016              | 0.001          | 0.008              |                  | 0.001              |                   | 0.001              |                        | 0.001              |                           | 0.001              |
| 5/9/2016               | 0.024          | 0.015              |                  | 0.001              |                   | 0.009              |                        | 0.001              |                           | 0.001              |
| 9/8/2010<br>9/8/2016   | 0.001          | 0.015              |                  | 0.001              |                   | 0.009              |                        | 0.001              |                           | 0.001              |
| 11/8/2016              | 0.010          | 0.015              |                  | 0.001              |                   | 0.009              |                        | 0.001              |                           | 0.001              |
| 2/16/2017              | 0.023          | 0.015              |                  | 0.001              |                   | 0.009              |                        | 0.001              |                           | 0.001              |
| 4/28/2017              | 0.001          | 0.020              |                  | 0.001              |                   | 0.020              |                        | 0.002              |                           | 0.001              |
| 9/5/2017               | 0.014          | 0.020              |                  | 0.001              |                   | 0.020              |                        | 0.002              |                           | 0.001              |
| 3/3/2017<br>11/8/2017  | 0.037          | 0.020              |                  | 0.001              |                   | 0.020              |                        | 0.002              |                           | 0.001              |
| 2/23/2018              | 0.023          | 0.020              |                  | 0.001              |                   | 0.020              |                        | 0.002              |                           | 0.001              |
| 5/8/2018               | 0.018          | 0.022              |                  | 0.001              |                   | 0.022              |                        | 0.001              |                           | 0.001              |
| 8/30/2018              | 0.001          | 0.022              |                  | 0.001              |                   | 0.022              |                        | 0.001              |                           | 0.001              |
| 11/8/2018              | 0.030          | 0.022              |                  | 0.001              |                   | 0.022              |                        | 0.001              |                           | 0.001              |
| 2/27/2019              | 0.002          | 0.022              |                  | 0.001              |                   | 0.022              |                        | 0.001              |                           | 0.001              |
| 5/22/2019              | 0.002          | 0.022              |                  | 0.001              |                   | 0.025              |                        | 0.001              |                           | 0.001              |
| 5, 22, 2015            | 0.010          | 0.022              | 0.001            | 0.001              | 0.000             | 0.020              | 0.001                  | 0.001              | 5.001                     | 0.001              |

## Received by OCD: 3/15/2022 3:09:09 PM



|             |              | Calendar |              | Calendar | Measured | Calendar | Measured | Calendar |              | Calendar |
|-------------|--------------|----------|--------------|----------|----------|----------|----------|----------|--------------|----------|
|             | Measured     | Yr Avg   | Measured     | Yr Avg   | Value    | Yr Avg   | Value    | Yr Avg   | Measured     | Yr Avg   |
| Sample Date | Value (mg/l) | (mg/l)   | Value (mg/l) | (mg/l)   | (mg/l)   | (mg/l)   | (mg/l)   | (mg/l)   | Value (mg/l) | (mg/l)   |
| 8/26/2019   | 0.043        | 0.022    | 0.001        | 0.001    | 0.068    | 0.025    | 0.001    | 0.001    | 0.001        | 0.001    |
| 11/13/2019  | 0.022        | 0.022    | 0.001        | 0.001    | 0.017    | 0.025    | 0.001    | 0.001    | 0.001        | 0.001    |
| 3/2/2020    | 0.001        | 0.016    | 0.001        | 0.001    | 0.002    | 0.030    | 0.001    | 0.001    | 0.001        | 0.001    |
| 9/8/2020    | 0.030        | 0.016    | 0.001        | 0.001    | 0.058    | 0.030    | 0.001    | 0.001    | 0.001        | 0.001    |
| 3/4/2021    | 0.001        | 0.012    | 0.001        | 0.001    | 0.001    | 0.005    | 0.002    | 0.001    | 0.001        | 0.001    |
| 6/8/2021    | 0.030        | 0.012    | 0.001        | 0.001    | 0.013    | 0.005    | 0.001    | 0.001    | 0.001        | 0.001    |
| 9/7/2021    | <0.001       | 0.012    | 0.001        | 0.001    | 0.002    | 0.005    | 0.002    | 0.001    | 0.001        | 0.001    |
| 11/4/2021   | 0.005        | 0.012    | 0.001        | 0.001    | <0.001   | 0.005    | 0.001    | 0.001    | 0.001        | 0.001    |



March 15, 2021

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

RE: EME JUNCTION H - 20

Enclosed are the results of analyses for samples received by the laboratory on 03/09/21 16:20.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

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:         | 03/09/2021                  | Sampling Date:      | 03/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 03/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #1 (H210568-01)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | 0.001  | 0.001           | 03/11/2021 | ND           | 0.020 | 102        | 0.0200        | 1.02 |           |
| Toluene*                             | <0.001 | 0.001           | 03/11/2021 | ND           | 0.020 | 98.1       | 0.0200        | 1.85 |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 03/11/2021 | ND           | 0.020 | 98.8       | 0.0200        | 2.50 |           |
| Total Xylenes*                       | <0.003 | 0.003           | 03/11/2021 | ND           | 0.061 | 101        | 0.0600        | 2.79 |           |
| Total BTEX                           | <0.006 | 0.006           | 03/11/2021 | ND           |       |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 102 %  | 6 58.2-13       | 3          |              |       |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: GM     |       |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride*                            | 1040   | 4.00            | 03/10/2021 | 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*                             | 744    | 125             | 03/10/2021 | ND           | 22.3  | 111        | 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*                                 | 3400   | 5.00            | 03/11/2021 | ND           | 576   | 115        | 500           | 1.25 |           |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

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:         | 03/09/2021                  | Sampling Date:      | 03/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 03/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #2 (H210568-02)

| BTEX 8021B                           | mg/    | L               | Analyze         | d By: MS     |       |            |               |      |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|-------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 03/11/2021      | ND           | 0.020 | 102        | 0.0200        | 1.02 |           |
| Toluene*                             | <0.001 | 0.001           | 03/11/2021      | ND           | 0.020 | 98.1       | 0.0200        | 1.85 |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 03/11/2021      | ND           | 0.020 | 98.8       | 0.0200        | 2.50 |           |
| Total Xylenes*                       | <0.003 | 0.003           | 03/11/2021      | ND           | 0.061 | 101        | 0.0600        | 2.79 |           |
| Total BTEX                           | <0.006 | 0.006           | 03/11/2021      | ND           |       |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 103 9  | 58.2-13         | 3               |              |       |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/L   |                 | Analyzed By: GM |              |       |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride*                            | 900    | 4.00            | 03/10/2021      | 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*                             | 730    | 125             | 03/10/2021      | ND           | 22.3  | 111        | 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*                                 | 2830   | 5.00            | 03/11/2021      | ND           | 576   | 115        | 500           | 1.25 |           |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

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:         | 03/09/2021                  | Sampling Date:      | 03/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 03/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #3 (H210568-03)

| mg/    | L                                                                                                       | Analyze                                                                                                                                                       | d By: MS                                                                      |                                                                                                   |                                                                                                                |                                                                                                           |                                                                                                                                                            |                                                                                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Result | Reporting Limit                                                                                         | Analyzed                                                                                                                                                      | Method Blank                                                                  | BS                                                                                                | % Recovery                                                                                                     | True Value QC                                                                                             | RPD                                                                                                                                                        | Qualifier                                                                                                                                                               |
| 0.001  | 0.001                                                                                                   | 03/11/2021                                                                                                                                                    | ND                                                                            | 0.020                                                                                             | 102                                                                                                            | 0.0200                                                                                                    | 1.02                                                                                                                                                       |                                                                                                                                                                         |
| <0.001 | 0.001                                                                                                   | 03/11/2021                                                                                                                                                    | ND                                                                            | 0.020                                                                                             | 98.1                                                                                                           | 0.0200                                                                                                    | 1.85                                                                                                                                                       |                                                                                                                                                                         |
| <0.001 | 0.001                                                                                                   | 03/11/2021                                                                                                                                                    | ND                                                                            | 0.020                                                                                             | 98.8                                                                                                           | 0.0200                                                                                                    | 2.50                                                                                                                                                       |                                                                                                                                                                         |
| <0.003 | 0.003                                                                                                   | 03/11/2021                                                                                                                                                    | ND                                                                            | 0.061                                                                                             | 101                                                                                                            | 0.0600                                                                                                    | 2.79                                                                                                                                                       |                                                                                                                                                                         |
| <0.006 | 0.006                                                                                                   | 03/11/2021                                                                                                                                                    | ND                                                                            |                                                                                                   |                                                                                                                |                                                                                                           |                                                                                                                                                            |                                                                                                                                                                         |
| 105 %  | 58.2-13                                                                                                 | 3                                                                                                                                                             |                                                                               |                                                                                                   |                                                                                                                |                                                                                                           |                                                                                                                                                            |                                                                                                                                                                         |
| mg/    | L                                                                                                       | Analyze                                                                                                                                                       | d By: GM                                                                      |                                                                                                   |                                                                                                                |                                                                                                           |                                                                                                                                                            |                                                                                                                                                                         |
| Result | Reporting Limit                                                                                         | Analyzed                                                                                                                                                      | Method Blank                                                                  | BS                                                                                                | % Recovery                                                                                                     | True Value QC                                                                                             | RPD                                                                                                                                                        | Qualifier                                                                                                                                                               |
| 1080   | 4.00                                                                                                    | 03/10/2021                                                                                                                                                    | ND                                                                            | 104                                                                                               | 104                                                                                                            | 100                                                                                                       | 3.92                                                                                                                                                       |                                                                                                                                                                         |
| mg/    | L                                                                                                       | Analyze                                                                                                                                                       | d By: AC                                                                      |                                                                                                   |                                                                                                                |                                                                                                           |                                                                                                                                                            |                                                                                                                                                                         |
| Result | Reporting Limit                                                                                         | Analyzed                                                                                                                                                      | Method Blank                                                                  | BS                                                                                                | % Recovery                                                                                                     | True Value QC                                                                                             | RPD                                                                                                                                                        | Qualifier                                                                                                                                                               |
| 860    | 125                                                                                                     | 03/10/2021                                                                                                                                                    | ND                                                                            | 22.3                                                                                              | 111                                                                                                            | 20.0                                                                                                      | 17.3                                                                                                                                                       |                                                                                                                                                                         |
| mg/    | L                                                                                                       | Analyze                                                                                                                                                       | d By: AC                                                                      |                                                                                                   |                                                                                                                |                                                                                                           |                                                                                                                                                            |                                                                                                                                                                         |
|        |                                                                                                         |                                                                                                                                                               |                                                                               |                                                                                                   |                                                                                                                |                                                                                                           |                                                                                                                                                            |                                                                                                                                                                         |
| Result | Reporting Limit                                                                                         | Analyzed                                                                                                                                                      | Method Blank                                                                  | BS                                                                                                | % Recovery                                                                                                     | True Value QC                                                                                             | RPD                                                                                                                                                        | Qualifier                                                                                                                                                               |
|        | Result<br>0.001<br><0.001<br><0.003<br><0.006<br>105 %<br>mg/<br>Result<br>1080<br>mg/<br>Result<br>860 | 0.001 0.001<br><0.001 0.001<br><0.003 0.003<br><0.006 0.006<br>105 % 58.2-13<br>mg/L<br>Result Reporting Limit<br>1080 4.00<br>mg/L<br>Result Reporting Limit | Result   Reporting Limit   Analyzed     0.001   0.001   03/11/2021     <0.001 | Result   Reporting Limit   Analyzed   Method Blank     0.001   0.001   03/11/2021   ND     <0.001 | Result   Reporting Limit   Analyzed   Method Blank   BS     0.001   0.001   03/11/2021   ND   0.020     <0.001 | Result Reporting Limit Analyzed Method Blank BS % Recovery   0.001 0.001 03/11/2021 ND 0.020 102   <0.001 | Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC     0.001   0.001   03/11/2021   ND   0.020   102   0.0200     <0.001 | Result   Reporting Limit   Analyzed   Method Blank   BS   % Recovery   True Value QC   RPD     0.001   0.001   03/11/2021   ND   0.020   102   0.0200   1.02     <0.001 |

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:         | 03/09/2021                  | Sampling Date:      | 03/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 03/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #4 (H210568-04)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | 0.002  | 0.001           | 03/11/2021 | ND           | 0.020 | 102        | 0.0200        | 1.02 |           |
| Toluene*                             | <0.001 | 0.001           | 03/11/2021 | ND           | 0.020 | 98.1       | 0.0200        | 1.85 |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 03/11/2021 | ND           | 0.020 | 98.8       | 0.0200        | 2.50 |           |
| Total Xylenes*                       | <0.003 | 0.003           | 03/11/2021 | ND           | 0.061 | 101        | 0.0600        | 2.79 |           |
| Total BTEX                           | <0.006 | 0.006           | 03/11/2021 | ND           |       |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 105 %  | 6 58.2-13       | 3          |              |       |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: GM     |       |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride*                            | 1180   | 4.00            | 03/10/2021 | 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*                             | 804    | 125             | 03/10/2021 | ND           | 22.3  | 111        | 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 |
|                                      |        |                 |            |              |       |            |               |      |           |

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:         | 03/09/2021                  | Sampling Date:      | 03/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 03/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #5 (H210568-05)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 03/11/2021 | ND           | 0.020 | 102        | 0.0200        | 1.02 |           |
| Toluene*                             | <0.001 | 0.001           | 03/11/2021 | ND           | 0.020 | 98.1       | 0.0200        | 1.85 |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 03/11/2021 | ND           | 0.020 | 98.8       | 0.0200        | 2.50 |           |
| Total Xylenes*                       | <0.003 | 0.003           | 03/11/2021 | ND           | 0.061 | 101        | 0.0600        | 2.79 |           |
| Total BTEX                           | <0.006 | 0.006           | 03/11/2021 | ND           |       |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 106 %  | 6 58.2-13       | 3          |              |       |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: GM     |       |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride*                            | 1040   | 4.00            | 03/10/2021 | 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*                             | 715    | 125             | 03/10/2021 | ND           | 22.3  | 111        | 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*                                 | 3350   | 5.00            | 03/11/2021 | ND           | 576   | 115        | 500           | 1.25 |           |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

| of 45                                                                                      |                  |              |                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |       |           |                |                                         |       |                                     |                |                 |        |                      |                  | La             | bd                   | Pac          | le<br>Itc | 1                                                      |          | f 1<br>PPC             | ərt       | <b>S</b>                    |
|--------------------------------------------------------------------------------------------|------------------|--------------|-----------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------|-------------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|-------------|-------|-----------|----------------|-----------------------------------------|-------|-------------------------------------|----------------|-----------------|--------|----------------------|------------------|----------------|----------------------|--------------|-----------|--------------------------------------------------------|----------|------------------------|-----------|-----------------------------|
| 2                                                                                          |                  |              | -                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |       |           | (              | HA                                      | IN-   | OF                                  | CU             | STO             | DD     | AN                   | ND               | AN             | AL)                  | (SI          | SR        | EQ                                                     | JES      | Т                      |           |                             |
| 101 East Mariand - Hobbs, NM 88240<br>Tel (575) 393-2326<br>Fax (575) 393-2476             |                  |              |                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | t         | or               | ie                      | -                              | the state of the s |        | с.          |       |           |                |                                         |       | AB C                                | rder           | ID #            |        |                      |                  |                |                      |              |           |                                                        |          |                        |           | e 8 of 8                    |
| Company Name:                                                                              |                  | BILL TO      |                       | -        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 'omi      | 000              |                         |                                | PO#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |             | 1     |           |                |                                         |       | 1                                   | AN/            | ALY             | SIS    | RE                   | QU               | IES            |                      |              |           |                                                        |          |                        |           | Page                        |
| RICE Operating Company                                                                     |                  | RICE         |                       | Address  | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 011       | Jan              |                         | reet, (                        | City, 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Zip)   |             | -     |           |                |                                         |       | (0                                  | Ircie          | ora             | spec   | 1 1                  | I                | 1              | 1                    | 1            | 1         | 1                                                      | Ē        | 1                      | 1         |                             |
| Project Manager:                                                                           |                  | 122 W T      | -                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | bbs. N    | New N            | Mexico                  | 8824                           | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |             |       |           |                |                                         |       |                                     |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           | Ц                           |
| Katie Jones                                                                                |                  | 122 00 1     | and the second second | Phone#   | No. of Lot of Lo |           |                  |                         |                                | Fax#                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |        |             |       |           |                |                                         | 2     |                                     |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |
| Address: (Street, City, Zip)                                                               |                  | (575)        | 393                   | 3-917    | 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                  |                         |                                | (57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 75)3   | 97-14       | 471   |           |                |                                         | /200  |                                     |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |
| Phone #:                                                                                   | ax #:            |              |                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |       |           | 190            |                                         | 10B   |                                     |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |
| (575) 393-9174                                                                             | (575)            | 397-1        | 147                   | 1        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -      |             | _     |           |                | 2                                       | 9 60  | Ð                                   |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |
| Project #: Project Name:                                                                   |                  |              |                       |          | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71        | )                |                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |       |           |                |                                         | e H   | Ser                                 |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |
| EME Junction H-20                                                                          |                  |              |                       | Sample   | er Sig                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | nature    | : 1              | Rozan                   | ne Jo                          | hnsor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | on (57 | 5)631-9     | 310   |           |                |                                         | Pb S  | Pp                                  |                |                 |        |                      | 2                |                |                      |              |           | 03)                                                    |          |                        |           | ours                        |
| Project Location:<br>T20S-R37E-Sec20 H ~ Lea County - New M                                | exico            | <            | _                     | A        | /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1         | r                | -                       | -                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |       |           | 100            | 8                                       | 5     | 5<br>P                              |                |                 |        |                      | C/62             |                |                      |              | -         | , P                                                    |          |                        |           | 1<br>F                      |
| 1205-R37E-Sec20 H ~ Lea County - New I                                                     | C/AICC           |              |                       | MAT      | TRAK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1         | P                | RESE                    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | E      | SAMP        | LING  |           |                | 418.1/1/1/1009 / 1/1009 Exterior (2007) | Cd    | TCLP Metals Ag As Ba Cd Cr Pb Se Hg |                |                 |        | 324                  | 8270C/625        |                | 8                    |              | 2         | Cations (Ca, Mg, Na, N)<br>Anions (CI, SO4, CO3, HCO3) |          | lids                   |           | Turn Around Time ~ 24 Hours |
| 11-11-10                                                                                   |                  |              |                       | MIA      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Ť         |                  | ME                      | THO                            | 1 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |             |       |           |                |                                         | s B   | As B                                | loc            |                 |        | 0B/6                 |                  |                | AVBC                 | -            | 2         | 2 0, Z                                                 |          | S                      |           | me                          |
| H210568                                                                                    | du               | # CONTAINERS |                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | (Ý               |                         |                                | ICE (1-1Liter HDPE)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |        |             |       | 8021B/602 | BTEX 8021B/602 |                                         | Ag A  | Ag                                  | TCLP Volatiles | TCLP Pesticides |        | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | onte      | SO4.                                                   |          | Total Dissolved Solids |           | T D                         |
| LAB # FIELD CODE                                                                           | C)0              | N            |                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |                         |                                | iter H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |        | 021         |       | 021E      | 21B            | 100                                     | tals  | etals                               | latil<br>mi    | stic            |        | Vol.                 | Sem              | 3082           | es                   | SS, I        | e C       |                                                        | s        | isso                   | es        | Iour                        |
| / LAB USE                                                                                  | o                | f            | КШ                    |          | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ž         | (4-4(            | 000                     |                                | (1-1L                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ш      | E (2        |       | Щ<br>8    | 8              | 87                                      | Me    | Ň                                   | > d            | D D D           |        | WS                   | WS               | s's            | ticid                | Ë (          | stur      | Cations (Ca<br>Anions (Cl.                             | Sulfates | al D                   | Chlorides | A E                         |
| ONLY                                                                                       | (G)rab or (C)omp | 00           | WATER                 | SOIL     | AIR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | HCL (4-40ml VOA) | HNO <sub>3</sub>        | H <sub>2</sub> SO <sub>4</sub> | E E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NONE   | DATE (2021) | TIME  | MTBE      | E              | ТРН 418.1/<br>РАН 8270C                 | [otal | 1<br>CL                             | TCLP Volatiles |                 | RCI    | GCI                  | GC/              | PCE            | Pes                  | BOI          | Wo        | Cat                                                    | Sul      | Tot                    | 5         | Ę                           |
|                                                                                            | Q                | #            | -                     | õ        | A U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0         |                  | <u> </u>                |                                | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        | 3/4         | 14:20 |           | X              | -                                       | +     | 1                                   | Ť              | Ť               | +      |                      |                  |                |                      |              |           |                                                        | X        | x                      | X         |                             |
| / Monitor Well #1                                                                          | G                | 5            | X                     | $\vdash$ | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +         | 4                | $\vdash$                | +                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +      |             | 9:40  |           | X              | +                                       | +     | Η                                   | +              | +               | $\top$ |                      |                  |                |                      |              |           |                                                        | X        | x                      | X         |                             |
| Z Monitor Well #2                                                                          | G                | 5            | X                     |          | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +         | 4                | $\vdash$                | +                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -      | 3/4         | 12:30 |           | X              | +                                       | +     |                                     |                | +               | +      |                      |                  |                |                      |              | Τ         |                                                        | X        | X                      | X         |                             |
| 3 Monitor Well #3                                                                          | G                | 5            | X                     |          | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +         | 4                | $\vdash$                | +                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -      | 3/4         | -     |           | X              | +                                       | +     |                                     | +              | +               | +      | +                    |                  |                |                      |              | Τ         |                                                        | X        | X                      | X         |                             |
| 4 Monitor Well #4                                                                          | G                | 5            | X                     |          | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +         | 4                | ++                      | +                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +      | 3/4         | 15:55 | -         | x              | +                                       | +     | +                                   | H              | +               | +      | +                    | $\top$           |                |                      |              | Τ         |                                                        | X        | x                      | X         |                             |
| 5 Monitor Well #5                                                                          | G                | 5            | X                     |          | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +         | 4                | $\vdash$                | +                              | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -      | 3/4         | 11:00 | 1         | <b>F</b>       | +                                       | +     | +                                   | $\vdash$       | +               | $\top$ | $\top$               | $\top$           |                |                      |              | Π         |                                                        |          |                        |           |                             |
|                                                                                            |                  |              |                       |          | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +         | ┢                | $\vdash$                | +                              | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +      |             | +     | +         | $\vdash$       | +                                       | +     | +                                   | H              | +               | +      | +                    | $\top$           | $\top$         |                      |              | Π         |                                                        | T        |                        |           |                             |
|                                                                                            |                  |              | -                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | _         | ┢                | $\vdash$                | +                              | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +      |             | +     | +         | $\vdash$       | +                                       | +     | +                                   | H              | +               | +      | +                    | $\top$           |                |                      |              | Π         |                                                        | T        |                        |           |                             |
|                                                                                            |                  |              | $\perp$               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +         | ┢                | $\vdash$                | +                              | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +      | –           | +     | +         | $\vdash$       | +                                       | +     | +                                   | $\vdash$       | +               | +      | +                    | +                | 1              |                      |              | Π         |                                                        | T        |                        |           |                             |
| M                                                                                          |                  | -            | -                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | +         | +                | +                       | +                              | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | +      |             | +     | +         | $\square$      | +                                       | +     | +                                   | H              | +               | +      | +                    | $\top$           | 1              |                      |              | $\square$ |                                                        | Τ        |                        |           |                             |
| Na 60-6<br>Relinquister by: Date: Time:                                                    |                  |              |                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |                         | -                              | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Time:  |             | 1     | Ph        | one            | Resu                                    | Its   | +                                   | Yes            |                 | N      | 0                    | -                | -              |                      |              |           |                                                        |          |                        |           |                             |
| Relinquished by: Date: Time:                                                               | Rece             | ived by      | r:                    |          | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | NI        | 1                | Da                      |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             | 71    |           | _              |                                         |       | +                                   | Ye             | -               | N      | 0                    | Ad               | ditio          | onal                 | Fax          | Nur       | nber                                                   |          |                        |           |                             |
| Rozanne Johnson 319/21 14:15                                                               |                  | all          | a                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u>uq</u> |                  | No. of Concession, name | COLUMN TWO IS NOT              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Time   | 14          | 00    | RE        | MAR            |                                         |       | _                                   | 10             |                 | -      |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |
| Relinquished by: Date: Time:                                                               | Rece             | ived B       | y: (l                 | _abora   | atory                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Staff     |                  | Da                      | ate:                           | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Time   |             |       | 1         |                |                                         |       |                                     | Lie            | -               | - A1   | ices                 | NAC              | 0              | m                    |              |           |                                                        |          |                        |           |                             |
| //20                                                                                       |                  |              |                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  |                         |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |       | 4         | Em             | ail R                                   | esu   | Its:                                |                |                 |        | Dsd                  |                  |                |                      | 1            |           |                                                        |          |                        |           |                             |
| Delivered By: (Circle One)                                                                 | Samp             | le Cond      | lition                |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Τ         | CH               | ECK                     | ED BY                          | Y:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |        |             |       |           |                |                                         |       |                                     | 10             | zan             | nec    | 250                  | aur              | 00.0           | 011                  | -            |           |                                                        |          |                        |           |                             |
|                                                                                            |                  |              | Co                    | -        | Intact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1         | (le              | (alcihi                 | ~                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |        |             |       |           |                |                                         |       |                                     |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |
|                                                                                            |                  | Yes          | F                     | Yes      | H                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | Gu               | itials)                 | $\mathcal{D}$                  | ~                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |             |       |           |                |                                         |       |                                     |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |
| Relinquished by: Date: Time:<br>Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other: |                  | No           |                       | No       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                  | -                       | -                              | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |        |             |       | _         |                |                                         |       |                                     |                |                 |        |                      |                  |                |                      |              |           |                                                        |          |                        |           |                             |

Released to Imaging: 10/6/2022 7:37:22 AM

•



June 17, 2021

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

RE: EME JUNCTION H - 20

Enclosed are the results of analyses for samples received by the laboratory on 06/11/21 13:55.

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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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.

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. Keine

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:         | 06/11/2021                  | Sampling Date:      | 06/08/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 06/17/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #1 (H211505-01)

| BTEX 8021B                           | mg/    | Ľ               | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | 0.030  | 0.001           | 06/14/2021 | ND           | 0.021 | 103        | 0.0200        | 0.806 |           |
| Toluene*                             | 0.002  | 0.001           | 06/14/2021 | ND           | 0.020 | 97.9       | 0.0200        | 1.20  |           |
| Ethylbenzene*                        | 0.006  | 0.001           | 06/14/2021 | ND           | 0.019 | 96.8       | 0.0200        | 1.91  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 06/14/2021 | ND           | 0.060 | 101        | 0.0600        | 1.87  |           |
| Total BTEX                           | 0.038  | 0.006           | 06/14/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 106 %  | % 77.1-12       | 4          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | Ľ               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 920    | 4.00            | 06/14/2021 | ND           | 100   | 100        | 100           | 0.00  |           |
| Sulfate 375.4                        | mg/    | Ľ               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Sulfate*                             | 612    | 125             | 06/15/2021 | ND           | 23.3  | 116        | 20.0          | 3.05  |           |
| TDS 160.1                            | mg/    | Ľ               | Analyze    | d By: GM     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| TDS*                                 | 3300   | 5.00            | 06/16/2021 | ND           | 524   | 105        | 500           | 0.409 |           |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

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:         | 06/11/2021                  | Sampling Date:      | 06/08/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 06/17/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #2 (H211505-02)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 06/14/2021 | ND           | 0.021 | 103        | 0.0200        | 0.806 |           |
| Toluene*                             | <0.001 | 0.001           | 06/14/2021 | ND           | 0.020 | 97.9       | 0.0200        | 1.20  |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 06/14/2021 | ND           | 0.019 | 96.8       | 0.0200        | 1.91  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 06/14/2021 | ND           | 0.060 | 101        | 0.0600        | 1.87  |           |
| Total BTEX                           | <0.006 | 0.006           | 06/14/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 110 %  | 6 86.5-11       | 5          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 1000   | 4.00            | 06/14/2021 | 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*                             | 636    | 125             | 06/15/2021 | ND           | 23.3  | 116        | 20.0          | 3.05  |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| TDS*                                 | 3010   | 5.00            | 06/16/2021 | ND           | 524   | 105        | 500           | 0.409 |           |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

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:         | 06/11/2021                  | Sampling Date:      | 06/08/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 06/17/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #3 (H211505-03)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | 0.013  | 0.001           | 06/14/2021 | ND           | 0.021 | 103        | 0.0200        | 0.806 |           |
| Toluene*                             | <0.001 | 0.001           | 06/14/2021 | ND           | 0.020 | 97.9       | 0.0200        | 1.20  |           |
| Ethylbenzene*                        | 0.002  | 0.001           | 06/14/2021 | ND           | 0.019 | 96.8       | 0.0200        | 1.91  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 06/14/2021 | ND           | 0.060 | 101        | 0.0600        | 1.87  |           |
| Total BTEX                           | 0.015  | 0.006           | 06/14/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 113 %  | % 77.1-12       | 4          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 960    | 4.00            | 06/14/2021 | 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*                             | 738    | 125             | 06/15/2021 | ND           | 23.3  | 116        | 20.0          | 3.05  |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| TDS*                                 | 3500   | 5.00            | 06/16/2021 | ND           | 532   | 106        | 500           | 2.99  |           |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

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:         | 06/11/2021                  | Sampling Date:      | 06/08/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 06/17/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #4 (H211505-04)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 06/14/2021 | ND           | 0.021 | 103        | 0.0200        | 0.806 |           |
| Toluene*                             | <0.001 | 0.001           | 06/14/2021 | ND           | 0.020 | 97.9       | 0.0200        | 1.20  |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 06/14/2021 | ND           | 0.019 | 96.8       | 0.0200        | 1.91  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 06/14/2021 | ND           | 0.060 | 101        | 0.0600        | 1.87  |           |
| Total BTEX                           | <0.006 | 0.006           | 06/14/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 117 %  | 6 86.5-11       | 5          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 1100   | 4.00            | 06/14/2021 | 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*                             | 737    | 125             | 06/15/2021 | ND           | 23.3  | 116        | 20.0          | 3.05  |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| TDS*                                 | 3660   | 5.00            | 06/16/2021 | ND           | 532   | 106        | 500           | 2.99  |           |

Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:         | 06/11/2021                  | Sampling Date:      | 06/08/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 06/17/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #5 (H211505-05)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 06/14/2021 | ND           | 0.021 | 103        | 0.0200        | 0.806 |           |
| Toluene*                             | <0.001 | 0.001           | 06/14/2021 | ND           | 0.020 | 97.9       | 0.0200        | 1.20  |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 06/14/2021 | ND           | 0.019 | 96.8       | 0.0200        | 1.91  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 06/14/2021 | ND           | 0.060 | 101        | 0.0600        | 1.87  |           |
| Total BTEX                           | <0.006 | 0.006           | 06/14/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 115 %  | 6 86.5-11.      | 5          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 960    | 4.00            | 06/14/2021 | 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*                             | 758    | 125             | 06/15/2021 | ND           | 23.3  | 116        | 20.0          | 3.05  |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| TDS*                                 | 3540   | 5.00            | 06/16/2021 | ND           | 532   | 106        | 500           | 2.99  |           |

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
|------|----------------------------------------------------------------------------------------------------------------|
| 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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

| 28 of 45    |                                                           |                              |                  |              |              |          |         |           |              |                  |        |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 |                  |                     |                 |           |                      |                            | La             | ibc                  | 58           | ate              | яłу                     | R        | ép                     | br        | ¦s_⊣                        |
|-------------|-----------------------------------------------------------|------------------------------|------------------|--------------|--------------|----------|---------|-----------|--------------|------------------|--------|--------------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------|----------------|----------------|----------------------------------------|-----------|-------------------------------------------------|------------------|---------------------|-----------------|-----------|----------------------|----------------------------|----------------|----------------------|--------------|------------------|-------------------------|----------|------------------------|-----------|-----------------------------|
|             |                                                           |                              | -                |              |              | -        |         |           |              |                  |        |                                | _                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             | Τ     |                |                | Cł                                     | A         | N-C                                             | )F-              | CUS                 | STO             | DDY       | A                    | ND                         | AN             | AL                   | YSI          | SR               | EQ                      | UE       | ST                     |           | ω                           |
| Page        | 101 East Marland - Hot<br>Tel (575) 393-<br>Fax (575) 393 | 2326 Calui                   |                  |              |              |          |         | at        | 0            | ri               | ies    |                                |                     | and the second se | с.          |       |                |                |                                        |           | LA                                              |                  | -                   | ID #            | -         |                      |                            |                |                      |              |                  |                         |          |                        |           | Page 8 of                   |
|             | Company Name:                                             |                              |                  | RICE         |              |          |         | Cor       | mna          | anv              |        |                                | PO#                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 | A                | NA                  | LY              | SIS       | RE                   |                            | JES<br>od No   | T (                  |              |                  |                         |          |                        |           | Pag                         |
|             |                                                           | ing Company                  | _                | RICE         |              | Addr     |         | 001       | Tipe         | arry             | (Str   | eet, C                         | City,               | Zip)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | _     |                |                |                                        |           |                                                 | (0               |                     |                 | peci<br>I | ily iv               | leun                       | 1              | 1                    | 1            | 1                | 1                       | 11       | 1                      | 1         |                             |
|             | Project Manager:<br>Katie Jones                           |                              |                  | 122 W        | Taylo        | r Stre   | eet ~ I | Hobbs     | s, Ne        | w Me             | exico  | 8824                           | 0                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
| ł           |                                                           | treet, City, Zip)            |                  |              |              | Phon     | e#:     |           |              |                  |        |                                | Fax                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 07.4        | 474   |                |                |                                        |           | 0.                                              |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
|             |                                                           | et ~ Hobbs, New Mexico 88240 |                  | (575)        | 39           | 3-9      | 174     |           |              |                  |        |                                | (57                 | (5)3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 397-14      | 4/1   |                |                |                                        |           | B/Z                                             |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
| 1           | Phone #:                                                  |                              | Fax #:           | 397-         | 147          | 1        |         |           |              |                  |        |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                | C35                                    |           | 6010                                            |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
|             | (575) 393-91<br>Project #:                                | 74<br>Project Name:          | (575)            | 591-         | 147          | <u>.</u> | /       |           | 7            |                  |        |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                | ded                                    |           | 위                                               | BL               |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
|             | Project #.                                                | EME Junction H-20            |                  |              | /            | /        |         | 1         | 4            | -                |        |                                |                     | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | -           | 12210 |                |                | xten                                   |           | Se                                              | 0 00             |                     |                 |           |                      |                            |                |                      |              |                  | 6                       | 5        |                        |           | 2                           |
|             | Project Location:                                         | 7                            |                  |              | /            | Sam      | pler S  | lignat    | are:         | R                | ozann  | e Joh                          | nnso                | ni (5/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (5)631-9    | 5010  |                |                | 05 E                                   |           | L D                                             | 5                |                     |                 |           |                      | 625                        |                |                      |              |                  | HCO3                    |          |                        |           | Hou                         |
|             | T20S-R37E-                                                | Sec20 H ~ Lea County - New M | exico            |              |              | A        | X       | 4/        | 4            | PR               | ESE    | RVA                            | TIV                 | E                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SAMP        |       |                |                | X10                                    |           | PO                                              | 5                |                     |                 |           | 4                    | 70C                        |                |                      |              | 5                | CO3 H                   |          | ds                     |           | 24                          |
|             |                                                           |                              |                  | 10           | Ľ            | M        | ATRI    | ×/        |              | _                | MET    |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | SAMI        | LING  |                |                | 5/1                                    |           | Ba                                              | S Ba             | es                  |                 |           | B/62                 | . 82                       |                | V608                 |              | +                | E C                     | 5        | Soli                   |           | he                          |
|             | Hallsos<br>LAB#                                           | FIELD CODE                   | (G)rab or (C)omp | # CONTAINERS | WATER        | -        | AIR     | JDGE      |              | HUL (4-40ml VUA) | NaHSO4 | H <sub>2</sub> SO <sub>4</sub> | ICE (1-1Liter HDPE) | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | DATE (2021) | TIME  | MTBE 8021B/602 | BTEX 8021B/602 | H 418.1/TX1005 / TX1005 Extended (C35) | PAH 8270C | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200. | TCLP Metals Ag P | TCLP Semi Volatiles | TCLP Pesticides | 0         | GC/MS Vol. 8260B/624 | GC/MS Semi. Vol. 8270C/625 | PCB's 8082/608 | Pesticides 8081A/608 | BOD, TSS, pH | Moisture Content | Cations (Ca, Mg, Na, N) | Sulfates | Total Dissolved Solids | Chlorides | Turn Around Time ~ 24 Hours |
| 5           | ONLY                                                      |                              | (G)              | 0 #          | M            | SOIL     | AIR     | SLI       | C -          |                  | Nal    | H <sub>2</sub>                 | Ŭ                   | Ž                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | DA          | Ę     | ž              |                |                                        | PA        | P                                               | 24               | 212                 | F               | RCI       | ŏ                    | Ŭ                          | ĕ              | P                    | B            | 20               |                         | _        | X                      | X         | -                           |
|             | 1                                                         | Monitor Well #1              | G                | 5            | X            | -        |         |           |              | 4                |        |                                | 1                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6/8         | 12:00 |                | X              |                                        |           |                                                 | +                | +                   | +               | +         | -                    | -                          | $\vdash$       | $\vdash$             | H            | +                | +                       | _        | x                      | X         |                             |
|             |                                                           | Monitor Well #2              | G                | 5            | X            |          |         |           |              | 4                |        |                                | 1                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6/8         | 7:45  | -              | X              | +                                      |           |                                                 | +                | +                   | +               | +         | $\vdash$             | +                          | $\vdash$       | $\vdash$             | H            | +                | +                       | _        | x                      | X         |                             |
|             |                                                           | Monitor Well #3              | G                | 5            | X            |          |         |           |              | 4                |        | 1                              | 1                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 6/8         | 10:10 | -              | X              | -                                      |           | $\square$                                       | +                | +                   | +               | +         | $\vdash$             | +                          | $\vdash$       | $\vdash$             | H            | +                | +                       | _        | X                      | X         |                             |
|             |                                                           | Monitor Well #4              | G                | 5            | X            |          |         |           | +            | 4                |        | -                              | 1                   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6/8         | 15:5  | -              | X              |                                        | -         | Н                                               | +                | +                   | +               | +         | +                    | +                          | $\vdash$       | $\vdash$             | H            | +                | +                       | X        | + +                    | X         |                             |
|             | 5                                                         | Monitor Well #5              | G                | 5            | X            |          |         |           | $\downarrow$ | 4                | +      | +                              | 1                   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6/8         | 13:10 | 9              | X              | -                                      | -         | Н                                               | +                | +                   | +               | +         | +                    | +                          | +              | $\vdash$             | H            | $\vdash$         | +                       | +        | $\square$              |           |                             |
|             |                                                           |                              |                  |              |              |          |         | $\square$ | +            | +                | +      | +                              | +                   | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ┣─          |       | ╀              | +              | +                                      | +         | Н                                               | +                | +                   | +               | +         | +                    | +                          | +              | $\vdash$             | H            | $\vdash$         | +                       | +        | $\square$              |           |                             |
|             |                                                           |                              |                  |              |              |          | -       | $\square$ | +            | +                | +      | +                              | +                   | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ┣─          |       | ╀              | +              | +                                      | +         | Н                                               | +                | +                   | +               | +         | +                    | +                          | +              | $\square$            | H            | H                | 1                       | T        | $\square$              |           |                             |
|             |                                                           | 2                            |                  | -            | +            | -        | -       | $\square$ | +            | +                | +      | +                              | +                   | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | $\vdash$    |       | ╋              | +              | +                                      | +         | Η                                               | +                | +                   | +               | +         | +                    | +                          | +              | $\square$            |              |                  |                         | T        |                        |           |                             |
| Md          |                                                           | Vn                           |                  | -            | +            | -        | +       | $\square$ | +            | +                | +      | +                              | +                   | +                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |             | +     | +              | +              | +                                      | +         | H                                               |                  | +                   | +               | +         | +                    | T                          | T              |                      |              |                  |                         |          |                        |           |                             |
| Md 60:60    |                                                           |                              |                  |              |              |          |         |           | 1            | _                | Date   |                                | T                   | Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <u> </u>    | 1     | P              | hone           | Re                                     | sults     |                                                 |                  | Yes                 | T               | No        | )                    |                            |                |                      |              |                  |                         |          |                        |           |                             |
| :60         | Relinquished by:                                          |                              |                  | ived by      |              |          | 1       |           | 1            | Ľ.               | C      |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13          | 5     | -              | -              | esul                                   |           |                                                 | Π                | Yes                 | Г               | N         | D                    | Ac                         | dditio         | nal                  | Fax          | Num              | nber                    | :        |                        |           |                             |
| 23.         | Rozanne Johnso                                            |                              |                  | ived B       |              | 2/4      | V       | v Ste     |              | YA               | Date   |                                | T                   | Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             | 50    |                |                | ARK                                    | _         |                                                 |                  |                     | -               | -         |                      |                            |                |                      |              |                  |                         |          |                        |           | ×                           |
| 202         | Relinquished by                                           | 'Date: Time:'                | Rece             | IVEU D       | y. (i        | Labu     | lator   | y 010     | /            |                  |        |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                | F              | mail                                   | Res       | ults                                            |                  | kio                 | nes             | @ri       | ces                  | swd                        | .coi           | m                    |              |                  |                         |          |                        |           |                             |
| 3/15/2022   |                                                           |                              | -                |              |              | -        |         | _         | -            |                  | 01/57  | 0.01/                          |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       | -              | -              | man                                    | 1101      | /uno                                            |                  |                     |                 |           |                      |                            | es.c           |                      | 1            |                  |                         |          |                        |           |                             |
|             | Delivered By:                                             | (Circle One)                 | Samp             | le Cond      | lition<br>Co | lol      | Inta    | ct        |              | CHE              | CKE    | D BA:                          |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
| OCD:        |                                                           |                              |                  | Yes          | -            | Ye       | _       |           |              | (Initia          | als)   |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
|             | Sampler                                                   | UPS - Bus - Other:           |                  | No           | Г            | No       |         |           |              | 7.               | Ø,     |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 |                  | -                   |                 | at she    |                      |                            |                | -                    | -            |                  |                         |          |                        | -         |                             |
| q p:        |                                                           |                              |                  |              |              |          |         |           |              |                  |        |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
| eive        |                                                           |                              |                  |              |              |          |         |           |              |                  |        |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |
| Received by |                                                           |                              |                  |              |              |          |         |           |              |                  |        |                                |                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |       |                |                |                                        |           |                                                 |                  |                     |                 |           |                      |                            |                |                      |              |                  |                         |          |                        |           |                             |

Released to Imaging: 10/6/2022 7:37:22 AM

# Laboratory Reports

•



September 15, 2021

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

RE: EME JUNCTION H - 20

Enclosed are the results of analyses for samples received by the laboratory on 09/10/21 15:55.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

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:         | 09/10/2021                  | Sampling Date:      | 09/07/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 09/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #1 (H212518-01)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |        |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 09/13/2021 | ND           | 0.018 | 89.6       | 0.0200        | 0.0112 |           |
| Toluene*                             | 0.003  | 0.001           | 09/13/2021 | ND           | 0.019 | 97.4       | 0.0200        | 0.664  |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 09/13/2021 | ND           | 0.020 | 97.5       | 0.0200        | 0.819  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 09/13/2021 | ND           | 0.060 | 101        | 0.0600        | 1.43   |           |
| Total BTEX                           | <0.006 | 0.006           | 09/13/2021 | ND           |       |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 101 %  | 6 77.1-12       | 4          |              |       |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride*                            | 1100   | 4.00            | 09/13/2021 | 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*                             | 939    | 250             | 09/14/2021 | ND           | 20.5  | 103        | 20.0          | 7.55   |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
|                                      |        |                 |            |              |       |            |               |        |           |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

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:         | 09/10/2021                  | Sampling Date:      | 09/07/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 09/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #2 (H212518-02)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |        |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 09/13/2021 | ND           | 0.018 | 89.6       | 0.0200        | 0.0112 |           |
| Toluene*                             | <0.001 | 0.001           | 09/13/2021 | ND           | 0.019 | 97.4       | 0.0200        | 0.664  |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 09/13/2021 | ND           | 0.020 | 97.5       | 0.0200        | 0.819  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 09/13/2021 | ND           | 0.060 | 101        | 0.0600        | 1.43   |           |
| Total BTEX                           | <0.006 | 0.006           | 09/13/2021 | ND           |       |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 102 %  | 6 77.1-12       | 4          |              |       |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride*                            | 1000   | 4.00            | 09/13/2021 | 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*                             | 881    | 250             | 09/14/2021 | ND           | 20.5  | 103        | 20.0          | 7.55   |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| TDS*                                 | 3080   | 5.00            | 09/14/2021 | ND           | 275   | 91.7       | 300           | 5.59   |           |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

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:         | 09/10/2021                  | Sampling Date:      | 09/07/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 09/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #3 (H212518-03)

| BTEX 8021B                           | mg/     | L               | Analyze    | d By: MS     |       |            |               |        |           |
|--------------------------------------|---------|-----------------|------------|--------------|-------|------------|---------------|--------|-----------|
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | 0.002   | 0.001           | 09/13/2021 | ND           | 0.018 | 89.6       | 0.0200        | 0.0112 |           |
| Toluene*                             | 0.002   | 0.001           | 09/13/2021 | ND           | 0.019 | 97.4       | 0.0200        | 0.664  |           |
| Ethylbenzene*                        | < 0.001 | 0.001           | 09/13/2021 | ND           | 0.020 | 97.5       | 0.0200        | 0.819  |           |
| Total Xylenes*                       | < 0.003 | 0.003           | 09/13/2021 | ND           | 0.060 | 101        | 0.0600        | 1.43   |           |
| Total BTEX                           | <0.006  | 0.006           | 09/13/2021 | ND           |       |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 102 %   | 6 77.1-12       | 4          |              |       |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/     | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride*                            | 1060    | 4.00            | 09/13/2021 | 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*                             | 996     | 250             | 09/14/2021 | ND           | 20.5  | 103        | 20.0          | 7.55   |           |
| TDS 160.1                            | mg/     | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| TDS*                                 | 3460    | 5.00            | 09/14/2021 | ND           | 275   | 91.7       | 300           | 5.59   |           |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

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:         | 09/10/2021                  | Sampling Date:      | 09/07/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 09/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #4 (H212518-04)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |        |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | 0.002  | 0.001           | 09/13/2021 | ND           | 0.018 | 89.6       | 0.0200        | 0.0112 |           |
| Toluene*                             | 0.001  | 0.001           | 09/13/2021 | ND           | 0.019 | 97.4       | 0.0200        | 0.664  |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 09/13/2021 | ND           | 0.020 | 97.5       | 0.0200        | 0.819  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 09/13/2021 | ND           | 0.060 | 101        | 0.0600        | 1.43   |           |
| Total BTEX                           | <0.006 | 0.006           | 09/13/2021 | ND           |       |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 104 %  | 6 77.1-12       | 4          |              |       |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride*                            | 1280   | 4.00            | 09/13/2021 | 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*                             | 953    | 250             | 09/14/2021 | ND           | 20.5  | 103        | 20.0          | 7.55   |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
|                                      |        |                 |            |              |       |            |               |        |           |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

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:         | 09/10/2021                  | Sampling Date:      | 09/07/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 09/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #5 (H212518-05)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |        |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 09/13/2021 | ND           | 0.018 | 89.6       | 0.0200        | 0.0112 |           |
| Toluene*                             | <0.001 | 0.001           | 09/13/2021 | ND           | 0.019 | 97.4       | 0.0200        | 0.664  |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 09/13/2021 | ND           | 0.020 | 97.5       | 0.0200        | 0.819  |           |
| Total Xylenes*                       | <0.003 | 0.003           | 09/13/2021 | ND           | 0.060 | 101        | 0.0600        | 1.43   |           |
| Total BTEX                           | <0.006 | 0.006           | 09/13/2021 | ND           |       |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 101 %  | 6 77.1-12       | 4          |              |       |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride*                            | 590    | 4.00            | 09/13/2021 | 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*                             | 860    | 125             | 09/14/2021 | ND           | 20.5  | 103        | 20.0          | 7.55   |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD    | Qualifier |
| TDS*                                 | 3360   | 5.00            | 09/14/2021 | ND           | 275   | 91.7       | 300           | 5.59   |           |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



### **Notes and Definitions**

| BS-3 | Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected. |
|------|-------------------------------------------------------------------------------------------------------------------------------------|
| 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 SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

| 01 East Marland - Hobbs, NM 88240<br>Tel (575) 393-2326  | ทภ               | T              | .9        | h    | 01    | r 9       | t     | nr               | ie               | 20    |        | In                   | C           |        |                  |                | C                                        | HAI       | -                                                                                        | -      | -                   | -      | -    |                      | ND               | A              | NAI                  | LYS          | SIS       | RE                      | QU          | ES                     | Г         | _ |
|----------------------------------------------------------|------------------|----------------|-----------|------|-------|-----------|-------|------------------|------------------|-------|--------|----------------------|-------------|--------|------------------|----------------|------------------------------------------|-----------|------------------------------------------------------------------------------------------|--------|---------------------|--------|------|----------------------|------------------|----------------|----------------------|--------------|-----------|-------------------------|-------------|------------------------|-----------|---|
| Fax (5/5) 393-24/6                                       | u.a.             |                |           |      |       |           |       |                  |                  | 20    | · _    |                      |             |        |                  |                |                                          | _         | LA                                                                                       | BO     | rder                | ID #   | ŧ    | _                    | _                | _              |                      |              |           |                         | _           |                        |           |   |
| ompany Name:<br>RICE Operating Company                   |                  | BILL 1<br>RICI |           |      |       |           | om    | nan              | v                |       | Ρ      | °O#                  |             |        | ANALYSIS REQUEST |                |                                          |           |                                                                                          |        |                     |        |      |                      |                  |                |                      |              |           |                         |             |                        |           |   |
| roject Manager:                                          |                  | TRIO           | _ 0       |      | ress: | 90        | onn   | pan              |                  | Stree | et, Ci | ity, Zip             | )           |        |                  |                |                                          |           |                                                                                          | (C     | ircle               | ors    | Spec | ify N                | /leth            | od N           | No.)                 |              |           |                         |             |                        |           | 1 |
| Katie Jones                                              |                  | 122 W          | Tayl      | -    | -     | Hob       | bs, I | New I            | Aexic            | 0 88  | 3240   |                      |             |        |                  |                |                                          |           |                                                                                          |        |                     |        |      |                      |                  |                |                      |              |           |                         |             |                        |           |   |
| ddress: (Street, City, Zip)                              |                  | 1575           | 1 20      |      | ne#:  |           |       |                  |                  |       |        | ax#:                 | 207         | 1471   |                  |                |                                          |           | 0.7                                                                                      |        |                     |        |      |                      |                  |                |                      |              |           |                         |             |                        |           |   |
| 122 W Taylor Street ~ Hobbs, New Mexico 88240<br>none #: | Fax #:           | (575           | ) 35      | 13-5 | 11/4  | ł         |       | -                |                  |       | (      | 575                  | 397         | -1471  | +                |                |                                          |           | B/20                                                                                     |        |                     |        |      |                      |                  |                | $\square$            | $\square$    |           |                         |             |                        |           | 1 |
| (575) 393-9174                                           | (575)            | 397-           | -147      | 71   |       |           |       |                  |                  | /     | /      | Za                   |             |        |                  |                | (C35                                     |           | 6010                                                                                     |        |                     |        |      |                      |                  |                |                      |              |           |                         |             |                        |           |   |
| roject #: Project Name:                                  |                  |                |           |      |       |           |       |                  | /                |       | /      |                      | /           | >      | ٦                |                | ded                                      |           | PH                                                                                       | BL     |                     |        |      |                      |                  |                |                      |              |           |                         |             |                        |           |   |
| EME Junction H-20                                        |                  |                |           | San  | npler | Signa     | ature | 4                | ozar             | ane . | John   | son (                | 075)@k      | 1-9310 | -                |                | xten                                     |           | b Se                                                                                     |        |                     |        |      |                      |                  |                |                      |              |           |                         |             |                        |           |   |
| T20S-R37E-Sec20 H ~ Lea County - New N                   | lexico           |                |           |      | -     |           | K     | -                | 1                | 2/    | K      | 10                   | -           |        |                  |                | 05 E                                     |           |                                                                                          | 5      |                     |        |      |                      | 625              |                |                      |              |           |                         | HCO3)       |                        |           |   |
|                                                          |                  |                | Г         | M    | ATR   | IX        |       | PF               | RES              | ERV   | OD     | IVE                  | SA          | MPLIN  | G                |                | TPH 418.1/TX1005 / TX1005 Extended (C35) |           | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7<br>TCi D Motels Ag As Ba Cd Cr Pb Se Hg |        |                     |        |      | 24                   | 8270C/625        |                | -                    |              |           | Ŷ                       | CO3, H      | 5                      |           |   |
| 1212518                                                  | 0                | S              | $\vdash$  | Τ    | T     | 1         | 4     |                  | ME               |       | -      | -                    | ⊢           | T      |                  |                | 05/                                      |           | Ac Ba                                                                                    |        | TCLP Semi Volatiles |        |      | GC/MS Vol. 8260B/624 | I. 82            |                | Pesticides 8081A/608 |              | =         | Cations (Ca, Mg, Na, K) | ö           | Total Dissolved Solids |           |   |
| LAB # FIELD CODE                                         | (G)rab or (C)omp | CONTAINERS     |           |      |       |           |       | (NOA)            |                  |       |        | NONE (1-1Liter HDPE) |             |        | MTBE 8021B/602   | BTEX 8021B/602 | X10                                      |           | AgA                                                                                      | es es  | /olat               | ides   |      | 826                  | GC/MS Semi. Vol. | PCB's 8082/608 | 081/                 | BOD, TSS, pH | nter      | , Mg                    | S04,        | bey                    |           |   |
|                                                          | r (C             | TAIL           | ~         |      |       | ш         |       | HCL (4-40mi VOA) |                  | 4     |        | Liter                | DATE (2021) |        | 0211             | 021E           | 8.17                                     | 200       | Itals                                                                                    | olatik | emi/                | estici |      | Vol.                 | Sem              | 082            | es 8                 | SS, p        | ů<br>ů    | Ca                      | 5           | ssol                   | se        |   |
| LAB USE<br>ONLY                                          | ab o             | NO             | Ë         |      |       | g         |       | 5                | en o             |       | H2504  | 빌빌                   | E E         | u      | Ш<br>Ш           | X 8            | 41                                       | PAH 8270C | Me                                                                                       |        | PS                  | P P    |      | MS                   | WS               | s's 8          | ticide               | 0, TS        | stur      | suo                     | Anions (CI, | ales<br>al Di          | Chlorides |   |
|                                                          | (G)r             | C<br>#         | WATER     | SOIL | AIR   | SLUDGE    |       | 되                | Minuco<br>Minuco | INAL  |        | NONE (1-1            | A           | TIME   | MTE              | BTE            | T                                        | PAH       | Tota                                                                                     | 되      | TCL                 | TCL    | RCI  | GC/                  | GC/              | PCE            | Pes                  | BOI          | Moi       | Cat                     | Anio        |                        | CP 0      |   |
| / Monitor Well #1                                        | G                | 5              | х         |      |       |           |       | 4                |                  | Τ     | ŀ      | 1                    | 9/1         | 12:5   | 0                | X              |                                          |           |                                                                                          |        |                     |        |      |                      |                  |                |                      |              |           |                         |             | x x                    | X         |   |
| Z Monitor Well #2                                        | G                | 5              | X         |      |       |           |       | 4                |                  |       | ŀ      | 1                    | 9/7         | 8:3    | D                | X              |                                          |           |                                                                                          |        |                     |        |      |                      |                  |                |                      |              |           |                         |             | x x                    | X         | 1 |
| 3 Monitor Well #3                                        | G                | 5              | X         |      |       |           |       | 4                |                  |       |        | 1                    | 9/7         | 11:0   | 0                | X              |                                          |           |                                                                                          |        |                     |        |      |                      |                  |                |                      |              |           |                         | -           | x x                    | -         | + |
| 4 Monitor Well #4                                        | G                | 5              | X         |      |       |           |       | 4                |                  |       | ŀ      | 1                    | 9/1         | 14:0   | 5                | X              |                                          | -         |                                                                                          |        |                     |        |      |                      |                  |                |                      |              |           | -                       |             | x x                    | +         | + |
| S Monitor Well #5                                        | G                | 5              | X         |      |       |           |       | 4                | -                | +     | 1.     | 1                    | 9/1         | 9:4    |                  | X              |                                          |           | _                                                                                        | +      | $\vdash$            |        |      |                      |                  |                |                      | $\square$    | $\square$ | -                       | -           | x x                    |           | 4 |
|                                                          |                  |                | -         |      | -     |           |       | -                | _                | +     | +      | +                    | ⊢           | _      | +                |                |                                          | -         | +                                                                                        | +      | -                   |        |      |                      |                  |                |                      | $\square$    | $\square$ | +                       | +           | +                      | +         | + |
| · · · · · · · · · · · · · · · · · · ·                    |                  |                | -         | -    | -     |           | -     | -                | +                | +     | +      | +                    | -           | +      | +                |                |                                          | +         | +                                                                                        | +      | -                   |        |      |                      | -                |                | $\vdash$             | $\vdash$     | $\vdash$  | +                       | +           | +                      | +         | + |
|                                                          |                  |                | -         | -    | -     | $\square$ | -     | +                | +                | +     | +      | +                    | -           |        | +                | -              |                                          | +         | +                                                                                        | +      | +                   |        |      | -                    | -                | -              |                      | $\vdash$     | $\vdash$  | +                       | +           | +                      | +         | + |
|                                                          |                  |                | +         | -    | +     | $\vdash$  | -     | +                | +                | +     | +      | +                    | $\vdash$    | +      | +                |                |                                          | +         | +                                                                                        | +      | +                   |        |      |                      | -                | -              |                      | $\vdash$     | $\vdash$  | +                       | +           | +                      | +         | + |
| elinguished by: Date: Time:                              | Receiv           | ed by          | _         |      |       |           |       | _                | Dat              | e.    | 1      | Time                 |             |        | Ph               | one            | Resi                                     | ilts      | +                                                                                        | Ye     | 25                  |        | No   |                      | _                |                |                      |              |           |                         | _           | _                      | 1         | 1 |
| TO 1/ 9/12/11/15-65                                      | Necen            | Su by          | IN        | . 1  | 1     | 11        |       | 1                |                  |       |        |                      |             |        |                  | x Re           | _                                        |           | ╈                                                                                        | -      | -                   |        | No   |                      | Add              | litior         | nal                  | Fax          | Num       | her                     |             |                        |           | - |
|                                                          | Receiv           | ed By          | <u>ar</u> | abor | ator  | v Sta     | uff)  |                  | Dat              |       |        | 21<br>Time           |             | 22     | _                | MAF            | _                                        | -         | _                                                                                        | Ye     | 35                  |        | NO   |                      | Adu              | ILIOI          | Idi r                | axi          | Num       | iber                    | -           |                        |           | - |
|                                                          |                  | ,              | (-        |      |       |           | /     |                  |                  |       |        |                      |             |        |                  |                | ail R                                    |           | ltor                                                                                     | ki     | on                  | 00     | Dric | esv                  | vd o             | con            | 0                    |              |           |                         |             |                        |           |   |
| elivered By: (Circle One)                                | Sample           | Condit         | lon       |      |       | _         |       | CHE              | VE               | DRV   | /.     |                      |             |        | -                | EW             |                                          | esu       | its:                                                                                     | _      |                     |        | -    | dad                  |                  |                |                      |              |           |                         |             |                        |           |   |
| envered by. (Circle One)                                 | Sample           | Condit         | Cool      | /    | Intac | t         |       | GHE              | -NEI             | ום ט  |        |                      |             |        |                  |                |                                          |           |                                                                                          | 1      | 120                 |        |      | - acat               |                  | 0.00           | 2111                 |              |           |                         |             |                        |           |   |
| $\frown$                                                 |                  | Yes            | ~         | Yes  | -     | П         |       | (Initia          |                  |       |        |                      |             |        |                  |                |                                          |           |                                                                                          |        |                     |        |      |                      |                  |                |                      |              |           |                         |             |                        |           |   |
| ampler - UPS - Bus - Other:                              |                  | No             |           | No   |       |           |       | 1.               | <u>ر</u>         |       |        |                      |             |        |                  |                |                                          |           |                                                                                          |        |                     |        |      |                      |                  |                |                      |              | -         |                         |             |                        |           |   |

Released to Imaging: 10/6/2022 7:37:22 AM

•



November 15, 2021

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

RE: EME JUNCTION H - 20

Enclosed are the results of analyses for samples received by the laboratory on 11/09/21 15:45.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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.

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. Keine

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:         | 11/09/2021                  | Sampling Date:      | 11/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 11/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #1 (H213189-01)

| BTEX 8021B                           | mg/     | L                                     | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|---------|---------------------------------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result  | Reporting Limit                       | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | 0.005   | 0.001                                 | 11/11/2021 | ND           | 0.021 | 104        | 0.0200        | 0.926 |           |
| Toluene*                             | <0.001  | 0.001                                 | 11/11/2021 | ND           | 0.019 | 96.7       | 0.0200        | 0.849 |           |
| Ethylbenzene*                        | <0.001  | 0.001                                 | 11/11/2021 | ND           | 0.019 | 96.5       | 0.0200        | 0.918 |           |
| Total Xylenes*                       | <0.003  | 0.003                                 | 11/11/2021 | ND           | 0.060 | 99.8       | 0.0600        | 1.27  |           |
| Total BTEX                           | <0.006  | 0.006                                 | 11/11/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 94.1 \$ | % 77.1-12                             | 4          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/     | L                                     | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result  | Reporting Limit                       | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 1050    | 4.00                                  | 11/10/2021 | 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*                             | 920     | 125                                   | 11/10/2021 | ND           | 19.0  | 95.0       | 20.0          | 10.6  |           |
| TDS 160.1                            | mg/     | L                                     | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result  | Reporting Limit                       | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
|                                      | Result  | · · · · · · · · · · · · · · · · · · · | ,          |              |       |            |               |       |           |

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:         | 11/09/2021                  | Sampling Date:      | 11/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 11/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #2 (H213189-02)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 11/11/2021 | ND           | 0.021 | 104        | 0.0200        | 0.926 |           |
| Toluene*                             | <0.001 | 0.001           | 11/11/2021 | ND           | 0.019 | 96.7       | 0.0200        | 0.849 |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 11/11/2021 | ND           | 0.019 | 96.5       | 0.0200        | 0.918 |           |
| Total Xylenes*                       | <0.003 | 0.003           | 11/11/2021 | ND           | 0.060 | 99.8       | 0.0600        | 1.27  |           |
| Total BTEX                           | <0.006 | 0.006           | 11/11/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 95.8 9 | % 77.1-12       | 4          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 950    | 4.00            | 11/10/2021 | 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*                             | 843    | 125             | 11/10/2021 | ND           | 19.0  | 95.0       | 20.0          | 10.6  |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
|                                      |        |                 |            |              |       |            |               |       |           |

Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:         | 11/09/2021                  | Sampling Date:      | 11/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 11/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #3 (H213189-03)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 11/11/2021 | ND           | 0.021 | 104        | 0.0200        | 0.926 |           |
| Toluene*                             | <0.001 | 0.001           | 11/11/2021 | ND           | 0.019 | 96.7       | 0.0200        | 0.849 |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 11/11/2021 | ND           | 0.019 | 96.5       | 0.0200        | 0.918 |           |
| Total Xylenes*                       | <0.003 | 0.003           | 11/11/2021 | ND           | 0.060 | 99.8       | 0.0600        | 1.27  |           |
| Total BTEX                           | <0.006 | 0.006           | 11/11/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 95.8 % | 77.1-12         | 4          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 950    | 4.00            | 11/10/2021 | 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*                             | 930    | 125             | 11/10/2021 | ND           | 19.0  | 95.0       | 20.0          | 10.6  |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| TDS*                                 | 3350   | 5.00            | 11/12/2021 | ND           | 852   | 85.2       | 1000          | 1.96  |           |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

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:         | 11/09/2021                  | Sampling Date:      | 11/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 11/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #4 (H213189-04)

| BTEX 8021B                           | mg/     | L               | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|---------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | 0.001   | 0.001           | 11/11/2021 | ND           | 0.021 | 104        | 0.0200        | 0.926 |           |
| Toluene*                             | <0.001  | 0.001           | 11/11/2021 | ND           | 0.019 | 96.7       | 0.0200        | 0.849 |           |
| Ethylbenzene*                        | <0.001  | 0.001           | 11/11/2021 | ND           | 0.019 | 96.5       | 0.0200        | 0.918 |           |
| Total Xylenes*                       | <0.003  | 0.003           | 11/11/2021 | ND           | 0.060 | 99.8       | 0.0600        | 1.27  |           |
| Total BTEX                           | <0.006  | 0.006           | 11/11/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 97.0 \$ | % 77.1-12       | 4          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/     | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 1150    | 4.00            | 11/10/2021 | 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*                             | 913     | 125             | 11/10/2021 | ND           | 19.0  | 95.0       | 20.0          | 10.6  |           |
| TDS 160.1                            | mg/     | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result  | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| TDS*                                 | 3640    | 5.00            | 11/12/2021 | ND           | 852   | 85.2       | 1000          | 1.96  |           |

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

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:         | 11/09/2021                  | Sampling Date:      | 11/04/2021     |
|-------------------|-----------------------------|---------------------|----------------|
| Reported:         | 11/15/2021                  | Sampling Type:      | Water          |
| Project Name:     | EME JUNCTION H - 20         | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN                  | Sample Received By: | Tamara Oldaker |
| Project Location: | T20S-R37E-SEC20 H-LEA CO NM |                     |                |

### Sample ID: MONITOR WELL #5 (H213189-05)

| BTEX 8021B                           | mg/    | L               | Analyze    | d By: MS     |       |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|-------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.001 | 0.001           | 11/11/2021 | ND           | 0.021 | 104        | 0.0200        | 0.926 |           |
| Toluene*                             | <0.001 | 0.001           | 11/11/2021 | ND           | 0.019 | 96.7       | 0.0200        | 0.849 |           |
| Ethylbenzene*                        | <0.001 | 0.001           | 11/11/2021 | ND           | 0.019 | 96.5       | 0.0200        | 0.918 |           |
| Total Xylenes*                       | <0.003 | 0.003           | 11/11/2021 | ND           | 0.060 | 99.8       | 0.0600        | 1.27  |           |
| Total BTEX                           | <0.006 | 0.006           | 11/11/2021 | ND           |       |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 95.3 9 | % 77.1-12       | 4          |              |       |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | L               | Analyze    | d By: AC     |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride*                            | 1050   | 4.00            | 11/10/2021 | 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*                             | 934    | 125             | 11/10/2021 | ND           | 19.0  | 95.0       | 20.0          | 10.6  |           |
| TDS 160.1                            | mg/    | L               | Analyze    | d By: GM     |       |            |               |       |           |
|                                      |        |                 |            |              |       |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS    | % Recovery | True Value QC | RPD   | Qualifier |

**Cardinal Laboratories** 

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

## **Laboratory Reports**



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

### **Notes and Definitions**

| ND  | Analyte NOT DETECTED at or above the reporting limit                        |
|-----|-----------------------------------------------------------------------------|
| RPD | Relative Percent Difference                                                 |
| **  | Samples not received at proper temperature of 6°C or below.                 |
| *** | Insufficient time to reach temperature.                                     |
| -   | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |

Samples reported on an as received basis (wet) unless otherwise noted on report

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

| 1 East Marland - H<br>Tel (575) 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                    | ina              | IT             | ,8     | b     | 01              | ·9     | to               | ri      | ie                 | S.                             | I                   | n                  | c.          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | $\vdash$       |                | CH                                                    | -               | -                                   | -              | -                   | -               | -    | -    | ND               | AN             | IAL                  | YSI                              | SR                      | REQ         | UE               | ST                     | _         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------|----------------|--------|-------|-----------------|--------|------------------|---------|--------------------|--------------------------------|---------------------|--------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------|-------------------------------------------------------|-----------------|-------------------------------------|----------------|---------------------|-----------------|------|------|------------------|----------------|----------------------|----------------------------------|-------------------------|-------------|------------------|------------------------|-----------|
| Fax (575) 39<br>mpany Name:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 33-2476                            |                  | BILL           |        |       |                 |        |                  |         |                    | -                              | PO#                 |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                                       | _               | LAE                                 | -              | -                   |                 | _    |      |                  | _              |                      |                                  | _                       | _           |                  |                        | _         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ating Company                      |                  | RIC            |        | pera  | ating           |        | omp              | any     | _                  |                                |                     |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                                       |                 |                                     |                |                     |                 | SIS  |      |                  |                |                      |                                  |                         |             |                  |                        |           |
| ject Manager.<br>Katie Jones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                    |                  | 122 W          | / Tayl |       | ress:<br>reet ~ | Hob    | os. Ne           | w Me    |                    | 8824                           |                     | Zip)               |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | 1              | 1                                                     |                 | 1                                   |                |                     | 1               | 1    | 1    | 1                | 1              | 1                    | 1                                | I                       | 1           |                  | 1                      | 1         |
| -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Street, City, Zip)                 |                  |                |        | Pho   | ne#:            |        |                  |         |                    |                                | Fax#                |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                                       | 1               |                                     |                |                     |                 |      |      |                  |                |                      |                                  |                         |             |                  |                        |           |
| 22 W Taylor Strone #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | eet ~ Hobbs, New Mexico 88240      | Fax #:           | (575           | 5) 39  | 93-9  | 174             |        | _                | _       |                    |                                | (57                 | '5)3               | 897-1       | 471                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | $\square$      | -              |                                                       | B/20C           |                                     | $\vdash$       |                     |                 |      | -    |                  | -              |                      | +                                | +                       | +           | $\left  \right $ | +                      | -         |
| 575) 393-9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                    | (575             | ) 397          | -147   | 1     | 7               | 1      |                  |         |                    |                                |                     |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                | (C35                                                  | Se Ho 60108/200 |                                     |                |                     |                 |      |      |                  |                |                      |                                  |                         |             |                  |                        |           |
| ect #:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Project Name:<br>EME Junction H-20 |                  | /              |        | /     | 1               | L      |                  | _       |                    |                                |                     | 3                  |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                | nded                                                  | H               | e Hg                                |                |                     |                 |      |      |                  |                |                      |                                  |                         |             |                  |                        |           |
| ect Location:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                    | /                | 1              | -      | Sam   | pler :          | Signa  | ture:            | Ro      | zann               | e Joh                          | nnson               | n (57              | 5)631-      | 9310                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                |                | TPH 418.1/TX1005 / TX1005 Extended (C35)<br>DAH 8270C | Ph Se           | TCLP Metals Ag As Ba Cd Cr Pb Se Hg |                |                     |                 |      |      |                  |                |                      |                                  |                         | (80         |                  |                        |           |
| the state of the second st | -Sec20 H ~ Lea County - New        | Mexico           |                | -      | Z     | 1               | ~      | -                | PRE     | SE                 | RVA                            | TIVE                |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                | 1005                                                  | d Cr            | SQC                                 |                |                     |                 |      |      | 8270C/625        |                |                      |                                  |                         | HCO3)       |                  |                        |           |
| 213189                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    | P                | -              | 12     | M     | ATR             | X      |                  |         |                    | HOL                            |                     |                    | SAM         | PLING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |                | XT                                                    | BaC             | Ba                                  |                | s                   |                 |      | /624 | 8270             |                | 80                   |                                  | Va. K                   | CO3, 1      |                  | olids                  |           |
| LAB #                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    | dwo              | # CONTAINERS   |        |       |                 |        | 100              | (La     |                    |                                | DPE)                |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 602            | 602            | (1005                                                 | d As            | Ag As                               |                | TCLP Semi Volatiles | es              |      |      |                  | 8              | Pesticides 8081A/608 | tont                             | Cations (Ca. Mg. Na. K) | S04, 0      |                  | Total Dissolved Solids |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FIELD CODE                         | Ô                | AIN            |        |       |                 | ш      | V ImO            |         | 4                  |                                | iter HI             |                    | 021)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 021B/          | 21B/           | Ê e                                                   | A sla           | tals /                              | latiles        | mi Vo               | sticid          |      | 01.8 | emi.             | 982/6          | s 80                 | S, pH                            | Ca.                     | CI, S       |                  | solv                   | S         |
| ONLY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                    | (G)rab or (C)omp | NO             | WATER  | 2     |                 | SLUDGE | HCI (4-40ml VOA) | o<br>o  | NaHSO <sub>4</sub> | H <sub>2</sub> SO <sub>4</sub> | ICE (1-1Liter HDPE) | Щ                  | DATE (2021) | ш                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1/                                            | Mat             | P Me                                | TCLP Volatiles | P Sel               | TCLP Pesticides |      | MS V | GC/MS Semi. Vol. | PCB's 8082/608 | icide                | BOD, TSS, pH<br>Moleture Content | ons (                   | Anions (CI, | Sulfates         | I Dis                  | Chlorides |
| /                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                    | (G)              | C<br>#         | WA     | SOIL  | AIR             | SLL    | U<br>H           | HNO3    | Nat                | H <sub>2</sub> S               | U<br>U              | NONE               | DAT         | TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | MTB            | BTE            | HAT                                                   | Tota            | TCL                                 | TCL            | TCL                 | TCL             | RCI  | GCI  | gC               | PCB            | Pest                 | BOD                              | Cati                    | Anic        | Sulf             | Tota                   | E S       |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitor Well #1                    | G                | 5              | X      |       |                 |        | 4                |         |                    |                                | 1                   | -                  |             | 15:15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | x              |                                                       |                 |                                     |                |                     |                 |      |      |                  |                |                      |                                  |                         |             |                  | x                      | X         |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitor Well #2                    | G                | 5              | X      |       | $\square$       | -      | 4                | +       |                    | $\square$                      | 1                   | -                  | 11/4        | 9:30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | $\square$      | x              | +                                                     | +               | +                                   | Н              |                     | -               | -    | -    | +                | -              | +                    | +                                | +                       | +           |                  | -                      | X         |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitor Well #3                    | G                | 5              | X      | -     | $\square$       | -      | 4                | -       | -                  | $\square$                      | 1                   | -                  |             | 12:00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | $\square$      | X              | +                                                     | +               | +                                   | $\square$      |                     | -               | +    | +    | +                | +              | +                    | +                                | +                       | +           |                  |                        | X         |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitor Well #4                    | G                | 5              | X      | -     | $\square$       | +      | 4                | +       | -                  | $\square$                      | 1                   | -+                 |             | 13:15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                | X              | +                                                     | +               | +                                   | H              | +                   | +               | +    | +    | +                | +              | +                    | +                                | +                       | +           | $\rightarrow$    | _                      | X         |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Monitor Well #5                    | G                | 5              | X      |       | $\mathbb{H}$    | +      | 4                | +       | $\vdash$           | $\square$                      | 1                   | +                  | 11/4        | 10:50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Н              | x              | +                                                     | +               | +                                   | Н              | +                   | +               | +    | +    | +                | +              | +                    | +                                | +                       | +           | x                | x                      | X         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                  |                | Η      |       | H               | +      | +                | +       |                    |                                | +                   | +                  |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | H              | +              | +                                                     | +               | +                                   | Η              |                     | +               | +    | +    | +                | +              | +                    | +                                | +                       | +           | H                | +                      | -         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                  |                |        |       |                 |        |                  |         |                    |                                |                     |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                                       |                 |                                     |                |                     |                 |      |      |                  |                |                      |                                  | T                       |             |                  |                        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 71                                 |                  |                |        |       |                 |        |                  |         |                    |                                |                     | 1                  |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                                       |                 |                                     |                |                     |                 |      |      |                  |                |                      |                                  |                         |             |                  |                        |           |
| auishad hur                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Data Tina                          | Desti            |                |        |       |                 |        |                  |         |                    |                                | -                   |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                                       |                 | -                                   |                |                     |                 |      |      |                  |                |                      |                                  |                         |             |                  |                        | _         |
| nquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Date: Time:                        | Receiv           | / -            |        | -1    |                 | 01     | .1               | /       | ate:               |                                | Tim                 |                    | 10          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -              |                | esult                                                 | S               |                                     | Yes            | -                   | -               | No   |      |                  |                |                      |                                  |                         |             |                  |                        |           |
| anne Johnson<br>nquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Date: Time:                        | Receiv           | CLLA<br>red By |        |       |                 |        |                  |         |                    |                                | Tim                 | A DOD OF THE OWNER | 15          | And a state of the |                | Res            |                                                       | -               |                                     | Yes            | s                   |                 | No   | ŀ    | Addi             | tiona          | al Fa                | ax Nu                            | imbe                    | er:         |                  |                        | _         |
| - On                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Date. Three                        |                  | iou by         | . (    | 10010 | liony           | otar   | ')               | 0       | ale.               |                                |                     | 10.                |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                | il Re                                                 |                 |                                     | kic            | no                  | 6               | rice |      | de               | om             |                      |                                  |                         |             |                  |                        |           |
| vered By: (                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Circle One)                        | Sample           | Condit         | ion    |       | -               | Т      | CH               | IECK    | EDE                | BY:                            | -                   | -                  |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | Ema            | ii Re                                                 | suit            | s.                                  |                |                     |                 | aso  |      |                  |                | m                    |                                  |                         |             |                  |                        |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                    |                  |                | Cool   |       | Intact          |        |                  |         |                    |                                |                     |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                                       |                 |                                     | -              |                     |                 |      |      |                  |                |                      |                                  |                         |             |                  |                        |           |
| moter - U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | IPS - Bus - Other:                 |                  | Yes            | H      | Yes   | H               |        | (In              | itials) |                    |                                |                     |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                |                                                       |                 |                                     |                |                     |                 |      |      |                  |                |                      |                                  |                         |             |                  |                        |           |
| mpter - U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ro - Dus - Otilei.                 |                  | No             |        | No    |                 | _      | Y                | *       | -                  |                                | _                   |                    |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |                | -                                                     | -               | -                                   |                |                     | -               |      |      | -                |                |                      | and the second second            | -                       |             |                  |                        | _         |

Released to Imaging: 10/6/2022 7:37:22 AM

•

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3470 Fax: (505) 476-3462

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

CONDITIONS

Action 90572

|                        | CONDITIONS                                               |
|------------------------|----------------------------------------------------------|
| Operator:              | OGRID:                                                   |
| RICE OPERATING COMPANY | 19174                                                    |
| 122 W Taylor           | Action Number:                                           |
| Hobbs, NM 88240        | 90572                                                    |
|                        | Action Type:                                             |
|                        | [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT) |

### CONDITIONS

| Created<br>By | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Condition<br>Date |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| nvelez        | 1. Continue sampling on a bi-annual schedule at a minimum. 2. OCD requires at least one groundwater flow direction map be included in future annual reports. 3. Submit summarized activities completed and their results in a 2022 Annual Report. Submittal to OCD expected no later than March 31, 2023. 4. OCD requires an abatement option(s) be submitted for pre-approval no later than March 31, 2023 to accelerate the reduction in the current chloride & TDS levels found in all site monitor wells. OCD suggest arranging a meeting to discuss options to mitigate the elevated values. | 10/6/2022         |