#### Rio State 3 (30-015-33690) Specific Justification for Volumes

The total volume released was 87 bbls of produced oil (68.4 bbls) and water (18.6 bbls). The total volume recovered was 25.5 bbls consisting of 11.5 bbls oil and 14 bbls water.

208.8 bbl tank (1.16 bbl/in)

| Date     | Gauge | Bbbls | Oil  | Water | Lost Oil | Lost Water |
|----------|-------|-------|------|-------|----------|------------|
| 1/2/2022 | 1'10" | 25.5  | 11.5 | 14    | 56.9     | 4.6        |
| 1/1/2022 | 6'3"  | 87    | 68.4 | 18.6  |          |            |

McNabb Partners, LLC Hobbs • Carlsbad • Midland 575.397.0050 www.mcnabbpartnersllc.com

September 25, 2024

NM Oil Conservation Division Environmental Bureau 1220 South St. Francis Dr. Santa Fe, NM 87505

RE: Closure Report Incident ID: nAPP2202454641 Rio State #3 Tank Battery Lat/Long: 32.708155, -104.546172 Project ID: 20220103-murchison-RioState3

NMOCD:

McNabb Partners LLC submits this closure request for above incident on behalf of Murchison Oil and Gas, LLC.

This report includes remediation action and sampling activities conducted at the Rio State #3 Tank Battery production site. McNabb Partners relied upon the submitted characterization and remediation plan submitted by Hungry Horse and approved by NMOCD on 06/17/2024.

• Remediation plan is included in Appendix C.

#### 1. Remediation Activities and Confirmation Sampling

Remediation activities began on June 25, 2024. Plate 1 shows:

- <u>Remediation</u> extent (with depths) relative to the <u>release</u> extent as mapped by Hungry Horse.
- Confirmation soil sample locations.

Closure Criteria for the site according to Table I in 19.29.12.12 NMAC is listed below:

|                        |          |         | ТРН     |         |         |
|------------------------|----------|---------|---------|---------|---------|
| High Karst Potential   | Chloride | GRO+DRO | Ext.    | Benzene | BTEX    |
|                        | (mg/kg)  | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| NMOCD Closure Criteria | 600      |         | 100     | 10      | 50      |



Rio State #3 Incident #: nAPP2202454641

Confirmation sampling was conducted along with the excavation activities. The confirmation soil samples (5-point composite) were collected every 200 square feet (or less) from the excavation bases and sidewalls and analyzed for TPH, BTEX and chloride by a certified laboratory.

On June 26, 2024, 3 confirmation samples were collected from the base of the excavation at 5 ft bgs (i.e., BS-01, BS-02 and BS-03) and 4 confirmation samples were collected from the walls of the excavation (i.e., SW-01 through SW-04). Analytical results indicate that samples BS-01 and SW-01 through SW-03 exceed NMOCD closure criteria for TPH and/or BTEX concentrations. Following the receipt of analytical data, 200 square feet areas represented by these samples were excavated further vertically and horizontally.

On June 28, 2024, 6 confirmation samples (WS-08 and WS-09 at depths of 0-2, 2-4 and 6 ft bgs) were collected from the walls of the excavation. Analytical results indicate that these samples exceeded TPH concentrations. Due to the presence of tank on top of the affected areas, these side walls could not be excavated any further at that time without causing major facility deconstruction.

On July 2, 2024, 4 confirmation samples were collected from the base of the excavation at 4 ft bgs (i.e., BS-04 through BS-07) and 8 confirmation samples were collected from the walls of the excavation (i.e., WS-03 through WS-07 at depths of 0-2 and 2-4 ft bgs). Analytical results indicate that all samples met concentrations listed in Table I (19.15.29 NMAC).

On July 8, 2024, 11 confirmation samples (WS-01, WS-02, WS-07 at depths of 0-2, 2-4 and 6 ft; and WS-10 at depths of 0-2 and 2-4 ft bgs) were collected from the walls of the excavation. Analytical results indicate that all samples met concentrations listed in Table I (19.15.29 NMAC).

Excavation activities in impacted areas of BS-01, WS-08 and WS-09 resumed after the storage tank was removed from the battery containment. Following the completion of the excavation in these affected areas, McNabb Partners collected final confirmation samples on September 18, 2024). 3 confirmation soil samples were collected from the base of the excavation (i.e., BS-01 at 12 ft bgs, BS-08 at 5 ft bgs, BS-09 at 5 ft bgs) and 8 confirmation soil samples were collected from the walls of the excavation (i.e., WS-01 at 6-9 and 9-12 ft bgs, WS-07 at 6-9 and 9-12 ft bgs, WS-08A at 0-2 and 2-5 ft bgs, and WS-09A at 0-2 and 2-5 ft bgs). Analytical results indicate that all samples met concentrations listed in Table I (19.15.29 NMAC) therefore all therefore all impacted soils were removed from the affected area of release.

Clean non-waste containing caliche was used for backfill material to restore the surface to an active production pad for oil and gas operations. Please refer to the composite sample "Backfill" in the Table A.

- Confirmation sample results are included in Table A Summary of Analytical.
- Certificate of Analysis for confirmation samples are included in Appendix B.
- All sampling notifications are included in Appendix A.

September 25, 2024



Rio State #3 Incident #: nAPP2202454641

#### 2. Closure Request

| <b>Remediation Closure Request</b>                    |                       |
|---|-----------------------|
| Requesting a remediation closure approval with this   | Yes                   |
| submission?   |                       |
| Have the lateral and vertical extents of              | Yes                   |
| contamination been fully delineated?                  |                       |
| Was this release entirely contained within a lined    | No                    |
| containment area?                                     |                       |
| All areas reasonably needed for production or         | Yes                   |
| subsequent drilling operations have been stabilized?  |                       |
| What was the total surface area (in sq ft)            | 1,635                 |
| remediated?   |                       |
| What was the total volume (cubic yards)               | 600                   |
| remediated?   |                       |
| All areas not reasonably needed for production or     | Yes                   |
| subsequent drilling operations have been reclaimed    |                       |
| to contain a minimum of 4 ft non waste containing     |                       |
| material with concentration less than 600 mg/kg       |                       |
| chlorides?  |                       |
| What was the total surface area (in sq ft) reclaimed? | 1,635                 |
| What was the total volume (in cubic yards)            | 600                   |
| reclaimed?  |                       |
| Summarize any addition remediation activities not     | Dig and haul disposal |
| included in answers above                             |                       |
|   |                       |

On behalf of Murchison Oil & Gas, we respectfully request a closure for the incident ID: nAPP2202454641. Based on the remedial action activities and confirmation samples analytical results, the Site is compliant with applicable closure requirements set forth in rule 19.15.19.12 NMAC and no further actions are required at the site.

When the production site is no longer in use for oil and gas operations, the surface will be remediated, restored, reclaimed and revegetated per 19.15.29.12 and 19.15.29.13 NMAC.

Please contact me with any questions.

Sincerely,

Whan

Dimitry Nikanorov Environmental Manager McNabb Partners (917) 497-6890

Cc: Murchison Oil and Gas, LLC



Rio State #3 Incident #: nAPP2202454641



Figure 1. Final Excavation.



Figure 2. Final Excavation.



Figure 3. Final Excavation.



Figure 4. Final Excavation.



Figure 5. Final Excavation before backfilling.



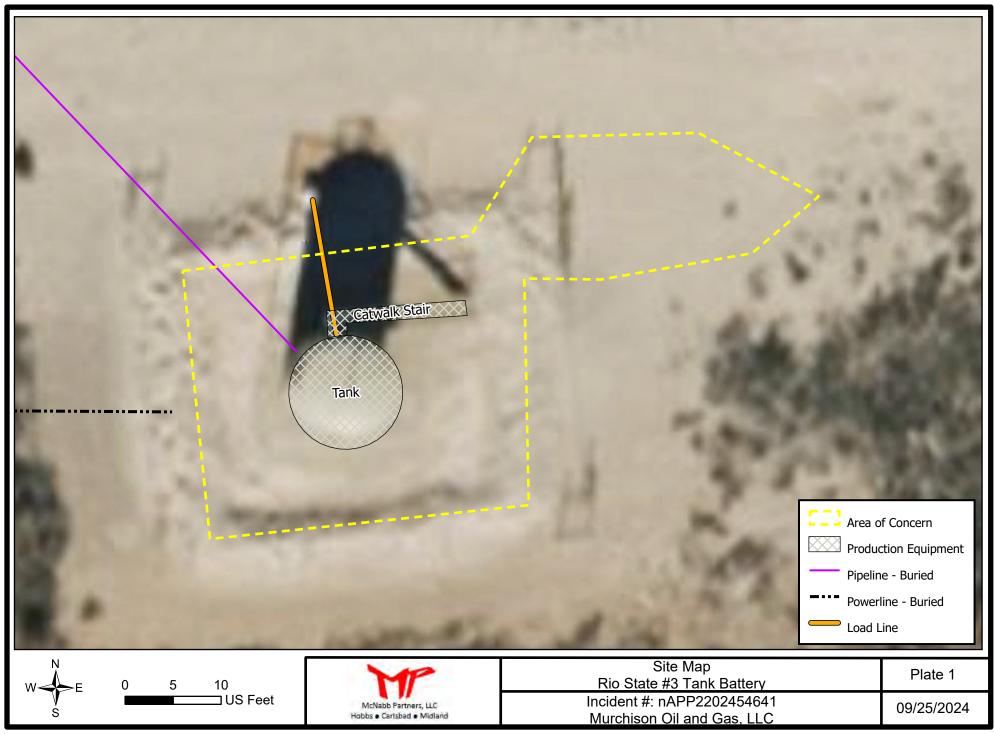
Figure 6. Final Excavation before backfilling.

September 25, 2024

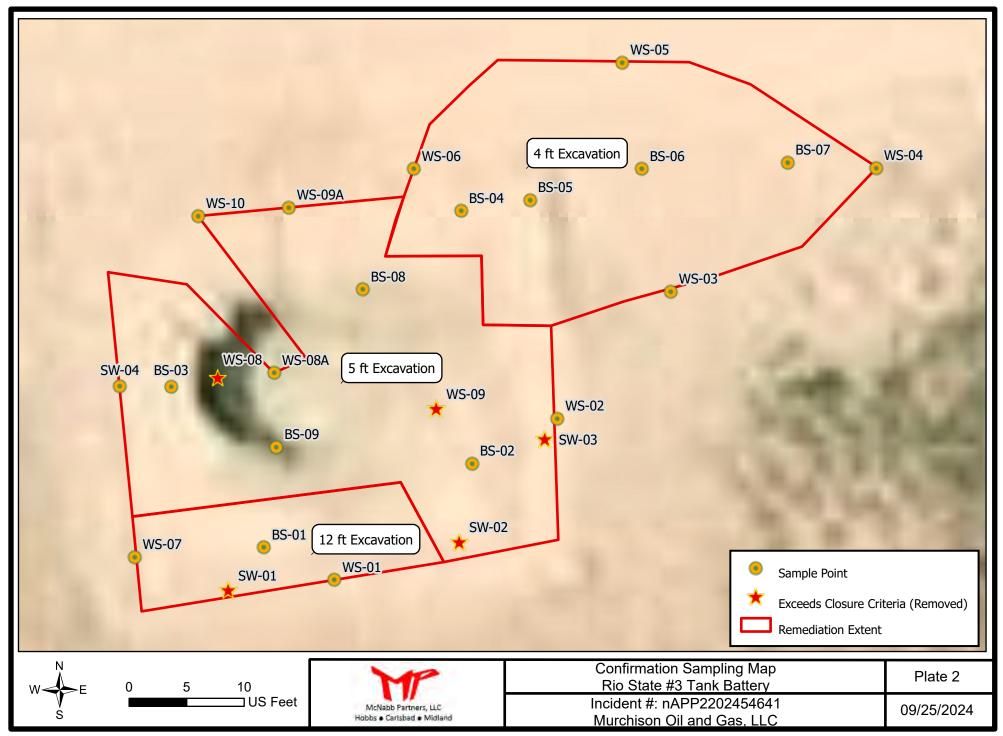
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# **Plates**





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Released to Imaging: 9/30/2024 10:20:23 AM

# **Tables**



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Rio State #3

napp2202454641

| Sample ID     | Date      |        |        | Bottom Depth | Location | Chloride |         | TPH Ext. |           | BTEX    | Comments | Lab      | Lab #      |
|---------------|-----------|--------|--------|--------------|----------|----------|---------|----------|-----------|---------|----------|----------|------------|
|               |           | (Feet) | (Feet) | (Feet)       |          | (mg/kg)  | (mg/kg) | (mg/kg)  | (mg/kg)   | (mg/kg) |          |          |            |
| NMOCD Closure |           |        |        |              |          | 600      |         | 100      | 10        | 50      |          |          |            |
| Criteria      |           |        |        |              |          |          |         | 100      | 10        |         |          |          |            |
| BS-01         | 6/26/2024 | 5      |        |              | Base     | 16       | <5640   | <5671.4  | <1        | 62      | Removed  | Cardinal | H243870    |
| BS-01         | 7/8/2024  | 6      |        |              | Base     | 80       | 331.3   | <341.3   | <0.05     | <0.3    | Removed  | Cardinal | H244041    |
| BS-01         | 7/30/2024 | 7      |        |              | Grab     | 57.3     | <50     | <50.0    | < 0.00202 | 0.11    | Removed  | Eurofins | 890-6964-1 |
| BS-01         | 7/30/2024 | 8      |        |              | Grab     | 74.7     | 2969    | 2970     | < 0.00201 | 12.8    | Removed  | Eurofins | 890-6964-1 |
| BS-01         | 7/30/2024 | 9      |        |              | Grab     | 150      | 2217    | 2220     | < 0.00200 | 17.4    | Removed  | Eurofins | 890-6964-1 |
| BS-01         | 7/30/2024 | 10     |        |              | Grab     | 114      | 1300    | 1300     | <0.00199  | 13.7    | Removed  | Eurofins | 890-6964-1 |
| BS-01         | 7/30/2024 | 11     |        |              | Grab     | 138      | 97.1    | 97.1     | < 0.00199 | 0.197   | Removed  | Eurofins | 890-6964-1 |
| BS-01         | 7/30/2024 | 12     |        |              | Grab     | 5.26     | <50     | <50.0    | < 0.00202 | 0.0145  | Removed  | Eurofins | 890-6964-1 |
| BS-01         | 9/18/2024 | 12     |        |              | Base     | 32       | 12      | 12       | <0.05     | <0.3    |          | Cardinal | H245673    |
| BS-02         | 6/26/2024 | 5      |        |              | Base     | 16       | <55     | <65      | <0.05     | 0.318   |          | Cardinal | H243870    |
| BS-03         | 6/26/2024 | 5      |        |              | Base     | 208      | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H243870    |
| BS-04         | 7/2/2024  | 4      |        |              | Base     | 80       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| BS-05         | 7/2/2024  | 4      |        |              | Base     | 64       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| BS-06         | 7/2/2024  | 4      |        |              | Base     | 80       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| BS-07         | 7/2/2024  | 4      |        |              | Base     | 80       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| BS-08         | 9/18/2024 | 5      |        |              | Base     | 16       | 50.9    | 50.9     | <0.05     | <0.3    |          | Cardinal | H245673    |
| BS-09         | 9/18/2024 | 5      |        |              | Base     | 32       | 36.1    | 36.1     | <0.05     | <0.3    |          | Cardinal | H245673    |
| SW-01         | 6/26/2024 |        | 0      | 5            | Wall     | 48       | <1802   | <1812    | <0.05     | 5.37    | Removed  | Cardinal | H243870    |
| SW-02         | 6/26/2024 |        | 0      | 5            | Wall     | 16       | 9360    | 9406.1   | <1        | 126     | Removed  | Cardinal | H243870    |
| SW-03         | 6/26/2024 |        | 0      | 5            | Wall     | 32       | <4220   | <4240.2  | <0.5      | 37.3    | Removed  | Cardinal | H243870    |
| SW-04         | 6/26/2024 |        | 0      | 5            | Wall     | 32       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H243870    |
| WS-01         | 7/8/2024  |        | 0      | 2            | Wall     | 32       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244041    |
| WS-01         | 7/8/2024  |        | 2      | 4            | Wall     | 304      | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244041    |
| WS-01         | 7/8/2024  | 6      |        |              | Wall     | 144      | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244041    |
| WS-01         | 9/18/2024 |        | 6      | 9            | Wall     | 16       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H245673    |
| WS-01         | 9/18/2024 |        | 9      | 12           | Wall     | 64       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H245673    |
| WS-02         | 7/8/2024  |        | 0      | 2            | Wall     | 176      | <27.7   | <37.7    | <0.05     | <0.3    |          | Cardinal | H244041    |
| WS-02         | 7/8/2024  |        | 2      | 4            | Wall     | 80       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244041    |
| WS-02         | 7/8/2024  | 6      |        |              | Wall     | 48       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244041    |
| WS-03         | 7/2/2024  |        | 0      | 2            | Wall     | 96       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| WS-03         | 7/2/2024  |        | 2      | 4            | Wall     | 448      | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| WS-04         | 7/2/2024  |        | 0      | 2            | Wall     | 160      | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| WS-04         | 7/2/2024  |        | 2      | 4            | Wall     | 64       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| WS-05         | 7/2/2024  |        | 0      | 2            | Wall     | 48       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| WS-05         | 7/2/2024  |        | 2      | 4            | Wall     | 48       | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |
| WS-06         | 7/2/2024  |        | 0      | 2            | Wall     | 64       | <34.4   | <44.4    | <0.05     | <0.3    |          | Cardinal | H244017    |
| WS-06         | 7/2/2024  |        | 2      | 4            | Wall     | 160      | <20     | <30      | <0.05     | <0.3    |          | Cardinal | H244017    |

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| n | Rio State #3<br>napp2202454641 |  |  |  |  |
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| Sample ID     | Date            | Discrete Depth | Top Depth | <b>Bottom Depth</b> | Location | Chloride | GRO+DRO | TPH Ext. | Benzene | BTEX    | Comments | Lab      | Lab #   |
|---------------|-----------------|----------------|-----------|---------------------|----------|----------|---------|----------|---------|---------|----------|----------|---------|
|               |                 | (Feet)         | (Feet)    | (Feet)              |          | (mg/kg)  | (mg/kg) | (mg/kg)  | (mg/kg) | (mg/kg) |          |          |         |
| NMOCD Closure |                 |                |           |                     |          | 600      |         | 100      | 10      | 50      |          |          |         |
| Criteria      |                 |                |           |                     |          | 000      |         | 100      | 10      | 50      |          |          |         |
| WS-07         | 7/8/2024        |                | 0         | 2                   | Wall     | 16       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H244041 |
| WS-07         | 7/8/2024        |                | 2         | 4                   | Wall     | 128      | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H244041 |
| WS-07         | 7/8/2024        | 6              |           |                     | Wall     | 96       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H244041 |
| WS-07         | 9/18/2024       |                | 6         | 9                   | Wall     | 16       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H245673 |
| WS-07         | 9/18/2024       |                | 9         | 12                  | Wall     | 64       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H245673 |
| WS-08         | 6/28/2024       |                | 0         | 2                   | Wall     | 16       | 328.2   | <338.2   | <0.05   | 3.98    | Removed  | Cardinal | H243921 |
| WS-08         | 6/28/2024       |                | 2         | 4                   | Wall     | <16      | 2882    | 2905.9   | <0.1    | 49.1    | Removed  | Cardinal | H243921 |
| WS-08         | 6/28/2024       | 5              |           |                     | Wall     | <16      | 2518    | <2528    | <0.05   | 12.4    | Removed  | Cardinal | H243921 |
| WS-09         | 6/28/2024       |                | 0         | 2                   | Wall     | 112      | 2634.9  | 2727.6   | <0.05   | 0.696   | Removed  | Cardinal | H243921 |
| WS-09         | 6/28/2024       |                | 2         | 4                   | Wall     | 16       | 4130    | 4156.8   | <0.05   | 12.9    | Removed  | Cardinal | H243921 |
| WS-09         | 6/28/2024       | 5              |           |                     | Wall     | 16       | <49.7   | <59.7    | <0.05   | <0.3    | Removed  | Cardinal | H243921 |
| WS-08A        | 9/18/2024       |                | 0         | 2                   | Wall     | 48       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H245673 |
| WS-08A        | 9/18/2024       |                | 2         | 5                   | Wall     | 16       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H245673 |
| WS-09A        | 9/18/2024       |                | 0         | 2                   | Wall     | 64       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H245673 |
| WS-09A        | 9/18/2024       |                | 2         | 5                   | Wall     | 16       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H245673 |
| WS-10         | 7/8/2024        |                | 0         | 2                   | Wall     | 32       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H244041 |
| WS-10         | 7/8/2024        |                | 2         | 4                   | Wall     | 16       | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H244041 |
| Backfill      | 6/25/2024       |                |           |                     | Backfill | 304      | <20     | <30      | <0.05   | <0.3    |          | Cardinal | H243842 |
|               |                 |                |           |                     |          |          |         |          |         |         |          |          |         |
| Exce          | eds Closure Cri | iteria         |           |                     |          |          |         |          |         |         |          |          |         |

McNabb Partners



**Communications** 



#### **Cindy Cottrell**

| From:    | Hall, Brittany, EMNRD <brittany.hall@emnrd.nm.gov></brittany.hall@emnrd.nm.gov> |
|----------|---|
| Sent:    | Friday, September 13, 2024 8:59 AM  |
| То:      | Cindy Cottrell  |
| Cc:      | Greg Boans; andrew@mcnabbpartners.com; Dimitry Nikanorov                        |
| Subject: | RE: [EXTERNAL] nAPP2202454641 Rio State #3 (30-015-33690)                       |

Good morning Cindy,

The extension request for 9/30/24 is approved. Please include a copy of this correspondence in the remediation closure report.

Thank you, **Brittany Hall ●** Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> <u>http://www.emnrd.nm.gov/ocd/</u>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at <a href="https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/">https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/</a> or <a href="https://www.emnrd.nm.gov/ocd/ocd-forms/">https://www.emnrd.nm.gov/ocd/ocd-forms/</a>.

From: Cindy Cottrell <ccottrell@jdmii.com>
Sent: Friday, September 13, 2024 7:23 AM

To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

**Cc:** Greg Boans <gboans@jdmii.com>; andrew@mcnabbpartners.com; Dimitry Nikanorov <Dimitry@mcnabbpartners.com> **Subject:** [EXTERNAL] nAPP2202454641 Rio State #3 (30-015-33690)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Brittany,

The closure report for Rio State #3 is due on Monday, 9/16/24. The tank has been removed and excavation is in progress. May we please have an extension until 9/30/24 in order to complete excavation and obtain confirmation samples?

Thank you for your consideration.

S MURCHISON OIL AND GAS, LLC

Cindy Cottrell Regulatory Coordinator & Corporate Secretary 7250 Dallas Parkway, Suite 1400 Plano, TX 75024 Direct Line: 469-573-6413

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

QUESTIONS

Page 14eof 235

Action 356504

QUESTIONS

| Operator: 0                | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 356504                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### QUESTIONS

| Prerequisites    |   |  |  |
|------------------|---|--|--|
| Incident ID (n#) | nAPP2202454641                            |  |  |
| Incident Name    | NAPP2202454641 RIO STATE 3 @ 30-015-33690 |  |  |
| Incident Type    | Oil Release                               |  |  |
| Incident Status  | Remediation Plan Approved                 |  |  |
| Incident Well    | [30-015-33690] RIO STATE #003             |  |  |

#### Location of Release Source

| Site Name               | RIO STATE 3 |  |  |  |  |
|-------------------------|-------------|--|--|--|--|
| Date Release Discovered | 01/03/2022  |  |  |  |  |
| Surface Owner           | Private     |  |  |  |  |

#### s

| Sampling Event General Information  |   |
|---|---|
| Please answer all the questions in this group.  |   |
| What is the sampling surface area in square feet  | 1,500   |
| What is the estimated number of samples that will be gathered                                   | 20  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 06/25/2024  |
| Time sampling will commence   | 09:00 AM  |
| Please provide any information necessary for observers to contact samplers                      | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 |
| Please provide any information necessary for navigation to sampling site                        | GPS Coordinates: 32.7081068, -104.5461455                         |

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.

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 356504                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### CONDITIONS Created By Condition Condition Date Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the 6/21/2024 aparkermp remediation closure samples not being accepted.

CONDITIONS

Page 15cof 235

Action 356504

| Santa Fe, NM 87505 |    |
|--------------------|----|
| CONDITIONS         |    |
|                    | 00 |
|                    | A  |

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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

QUESTIONS

Page 16:0f 235

Action 358916

QUESTIONS

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 358916                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### QUESTIONS

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAPP2202454641                            |
| Incident Name    | NAPP2202454641 RIO STATE 3 @ 30-015-33690 |
| Incident Type    | Oil Release                               |
| Incident Status  | Remediation Plan Approved                 |
| Incident Well    | [30-015-33690] RIO STATE #003             |

#### Location of Release Source

| Site Name               | RIO STATE 3 |
|-------------------------|-------------|
| Date Release Discovered | 01/03/2022  |
| Surface Owner           | Private     |

#### Sampling Event General Information

| Plassa  | answar | all the | auastions | in | this group. |
|---------|--------|---------|-----------|----|-------------|
| 1 16436 | answer | anun    | questions |    | uns group.  |

| Please answer all the questions in this group.  |   |  |
|---|---|--|
| What is the sampling surface area in square feet  | 1,500   |  |
| What is the estimated number of samples that will be gathered                                   | 20  |  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 06/28/2024  |  |
| Time sampling will commence   | 08:00 AM  |  |
| Please provide any information necessary for observers to contact samplers                      | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 Sampling will continue into 6/28/2024 |  |
| Please provide any information necessary for navigation to sampling site                        | GPS Coordinates: 32.7081068, -104.5461455   |  |

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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

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 358916                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### CONDITIONS Created By Condition Condition Date Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the 6/26/2024 aparkermp remediation closure samples not being accepted.

Action 358916

#### CONDITIONS

Page 17eof 235

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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

QUESTIONS

Page 18cof 235

Action 359510

QUESTIONS

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 359510                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### QUESTIONS

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAPP2202454641                            |
| Incident Name    | NAPP2202454641 RIO STATE 3 @ 30-015-33690 |
| Incident Type    | Oil Release                               |
| Incident Status  | Remediation Plan Approved                 |
| Incident Well    | [30-015-33690] RIO STATE #003             |

#### Location of Release Source

| Site Name               | RIO STATE 3 |  |
|-------------------------|-------------|--|
| Date Release Discovered | 01/03/2022  |  |
| Surface Owner           | Private     |  |

#### Sampling Event General Information

otio o in thi

| Please answer all the questions in this group.  |  |
|---|--|
| What is the sampling surface area in square feet  | 1,500  |
| What is the estimated number of samples that will be gathered                                   | 20   |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 07/02/2024   |
| Time sampling will commence   | 08:00 AM   |
| Please provide any information necessary for observers to contact samplers                      | Please contact dimitry@mcnabbpartners.com if needed. 917-497-6890 or Andrew Parker 970-579-9535 Delays in excavation efforts have effected the dates and times of sampling. Project is taking longer than anticipated to ensure human health and safety around production equipment. |
| Please provide any information necessary for navigation to sampling site                        | GPS Coordinates: 32.7081068, -104.5461455  |

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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

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 359510                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### CONDITIONS Created By Condition Condition Date Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the 6/28/2024 aparkermp remediation closure samples not being accepted.

Page 19eof 235

Action 359510

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

QUESTIONS

Page 20eof 235

Action 360579

QUESTIONS

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 360579                                     |
|                            | Action Type:                               |
|                            | [NOTIEV] Notification Of Sampling (C-141N) |

#### QUESTIONS

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAPP2202454641                            |
| Incident Name    | NAPP2202454641 RIO STATE 3 @ 30-015-33690 |
| Incident Type    | Oil Release                               |
| Incident Status  | Remediation Plan Approved                 |
| Incident Well    | [30-015-33690] RIO STATE #003             |

#### Location of Release Source

| Site Name               | RIO STATE 3 |
|-------------------------|-------------|
| Date Release Discovered | 01/03/2022  |
| Surface Owner           | Private     |

#### Sampling Event General Information

| Please answer all the questions in this group.  |   |
|---|---|
| What is the sampling surface area in square feet  | 1,500                                     |
| What is the estimated number of samples that will be gathered                                   | 15  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 07/08/2024                                |
| Time sampling will commence   | 09:00 AM                                  |
| Please provide any information necessary for observers to contact samplers                      | Christopher Turner. 575-441-0080          |
| Please provide any information necessary for navigation to sampling site                        | GPS Coordinates: 32.7081068, -104.5461455 |

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

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 360579                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### CONDITIONS Created By Condition Condition Date Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the 7/2/2024 aparkermp remediation closure samples not being accepted.

Page 21eof 235

Action 360579

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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

QUESTIONS

Page 22eof 235

Action 367510

QUESTIONS

| Operator: 0                | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 367510                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### QUESTIONS

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAPP2202454641                            |
| Incident Name    | NAPP2202454641 RIO STATE 3 @ 30-015-33690 |
| Incident Type    | Oil Release                               |
| Incident Status  | Remediation Plan Approved                 |
| Incident Well    | [30-015-33690] RIO STATE #003             |

#### Location of Release Source

| Site Name               | RIO STATE 3 |
|-------------------------|-------------|
| Date Release Discovered | 01/03/2022  |
| Surface Owner           | Private     |

#### Sampling Event General Information

| Please answer all the questions in this group.  |   |
|---|---|
| What is the sampling surface area in square feet  | 200   |
| What is the estimated number of samples that will be gathered                                   | 3   |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 07/30/2024  |
| Time sampling will commence   | 08:30 AM  |
| Please provide any information necessary for observers to contact samplers                      | dimitry@mcnabbpartners.com if needed. 917-497- 6890 |
| Please provide any information necessary for navigation to sampling site                        | 32.7081068, -104.5461455                            |

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

CONDITIONS

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

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 367510                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### Created By Condition Condition Date Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the 7/25/2024 aparkermp remediation closure samples not being accepted.

Page 23cof 235

Action 367510

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

QUESTIONS

Page 24cof 235

Action 383715

QUESTIONS

| Operator: O                | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway A      | Action Number:                             |
| Plano, TX 75024            | 383715                                     |
| A                          | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### QUESTIONS

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAPP2202454641                            |
| Incident Name    | NAPP2202454641 RIO STATE 3 @ 30-015-33690 |
| Incident Type    | Oil Release                               |
| Incident Status  | Remediation Plan Approved                 |
| Incident Well    | [30-015-33690] RIO STATE #003             |

#### Location of Release Source

| Site Name               | RIO STATE 3 |
|-------------------------|-------------|
| Date Release Discovered | 01/03/2022  |
| Surface Owner           | Private     |

#### Sampling Event General Information

| Please answer all the questions in this group.  |  |
|---|--|
| What is the sampling surface area in square feet  | 1,000  |
| What is the estimated number of samples that will be gathered                                   | 8  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 09/18/2024   |
| Time sampling will commence   | 09:00 AM   |
| Please provide any information necessary for observers to contact samplers                      | Please contact Dimitry at 9174976890 or dimitry@mcnabbpartners.com if neccessary |
| Please provide any information necessary for navigation to sampling site                        | GPS coordinates of the excavation area: 32.708155, -104.546108                   |

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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

| Operator:                  | OGRID:                                     |
|----------------------------|--|
| Murchison Oil and Gas, LLC | 15363                                      |
| 7250 Dallas Parkway        | Action Number:                             |
| Plano, TX 75024            | 383715                                     |
|                            | Action Type:                               |
|                            | [NOTIFY] Notification Of Sampling (C-141N) |

#### CONDITIONS Created By Condition Condition Date Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the 9/16/2024 aparkermp remediation closure samples not being accepted.

Page 25cof 235

Action 383715

CONDITIONS

Released to Imaging: 9/30/2024 10:20:234AM

# **Appendix B**

### **Certificates of Analysis**





July 03, 2024

ANDREW PARKER

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: RIO STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 06/26/24 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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



|                   |              | MC NABB<br>ANDREW<br>P. O. BOX<br>HOBBS NN | PARKER<br>5753 |                     |               |
|-------------------|--------------|--|----------------|---------------------|---------------|
|                   |              | Fax To:                                    | (575) 391-8484 | ł                   |               |
| Received:         | 06/26/2024   |  |                | Sampling Date:      | 06/25/2024    |
| Reported:         | 07/03/2024   |  |                | Sampling Type:      | Soil          |
| Project Name:     | RIO STATE #3 |  |                | Sampling Condition: | Cool & Intact |
| Project Number:   | NONE GIVEN   |  |                | Sample Received By: | Alyssa Parras |
| Project Location: | EDDY CO., NM |  |                |                     |               |

#### Sample ID: BACKFILL (H243842-01)

| BTEX 8021B                           | mg/    | ′kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifie  |
| Benzene*                             | <0.050 | 0.050           | 07/02/2024 | ND           | 1.91 | 95.4       | 2.00          | 5.30 |           |
| Toluene*                             | <0.050 | 0.050           | 07/02/2024 | ND           | 1.91 | 95.3       | 2.00          | 6.40 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/02/2024 | ND           | 2.04 | 102        | 2.00          | 7.16 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/02/2024 | ND           | 5.98 | 99.7       | 6.00          | 7.39 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/02/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 97.5   | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: AC     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 304    | 16.0            | 07/02/2024 | ND           | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/02/2024 | ND           | 185  | 92.4       | 200           | 3.66 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/02/2024 | ND           | 174  | 87.2       | 200           | 13.7 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/02/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 99.5   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 97.8   | % 49.1-14       | 0          |              |      |            |               |      |           |

#### Cardinal Laboratories

\*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

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

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| ard   | No  |   |     |     | C |
|---|---|---|-----|-----|---|
|   | e Ema                                       |   |     |     | ' |
|   | No Add'I Phone #:<br>provide Email address: |   |     |     |   |
| Bacteria (only) Sample Condition<br>Cool Intact Observed Temp<br>Yes Yes<br>No No Corrected Tem |   |   |     | , t |   |
| y) Sam<br>o C   | 1   |   |     |     |   |
| mple Condition<br>Observed Temp. °C<br>Corrected Temp. °C                                       |   |   |     |     |   |
| ndition<br>id Tem<br>ad Tem   |   |   |     |     | 1 |
| p. °C   |   |   |     |     | - |
|   |   | - | +++ |     |   |
|   |   |   |     |     |   |

Received by OCD: 9/26/2024 12:55:51 PM

Relinquished By:

S

Time: 16:45 Date: Date: 6/26

Received By:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Observed Temp. °C Corrected Temp. °C

Sample Condition Cool Intact Ves Yes No No No

(Initials)

Correction Factor 0°C

**Turnaround Time:** 

Aush Standard

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinalli

Time:

Relinquished 3y:

00, 0100

event shall Cardinal be i

shall be de have not by

made in writing and received by Cardinal within 30 days

loss of use

by client, its sub à

All Results are emailed. Please prov

Verbal Result:

Yes

ON D

REMARKS:

by the clean for the

tion of the applicable

in any of the above 055 01 or lort

1.4

Received By:

PLEASE NOTE: Liability and nalyses. All claims including those

Page 30 of 235

| Attn: Andrew Farky       | State: Zip:  | City:                           |
|--------------------------|--|---------------------------------|
| Company: Mc Nubb farting |  | Address: on file                |
| P.O. #                   | Proker   | Project Manager: And rew        |
| BILL TO                  | Parthes  | Company Name: Mc Nabb Parthes   |
|                          | 101 East Marland, Hobbs, NM 88240<br>(575) 393-2326 FAX (575) 393-2476 | 101 East Maria<br>(575) 393-232 |
|                          |  | -                               |

ANALYSIS

REQUEST

City:

Project #: Phone #:

Project Location:

Project Name:

Rici

state #3

Project Owner:

City: State:

Zip

Address:

Fax #:

Sampler Name:

Andrew

Parker

MATRIX

PRESERV

SAMPLING

AP

Benzene

Fax #:

Phone #:

FOR LAB USE ONLY

H243842

Backfill

Lab I.D.

Sample I.D.

(G)RAB OR (C)OMP

# CONTAINERS GROUNDWATER

WASTEWATER

× SOIL OIL SLUDGE

> OTHER ACID/BASE

KICE/COOL

OTHER

425 DATE

16:50

×

 $\geq$ 

>

X

TIME

Backfill

BTEX

TPH

Page 4 of 4



July 01, 2024

DIMITRY NIKANOROV MC NABB SERVICES P. O. BOX 5753 HOBBS, NM 88240

RE: RIO STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 06/27/24 16:22.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 06/27/2024 Sampling Date: 06/26/2024 Reported: 07/01/2024 Sampling Type: Soil Project Name: RIO STATE #3 Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez Project Location: EDDY CO., NM

#### Sample ID: BS - 01 5 (H243870-01)

| BTEX 8021B                           | mg/                    | 'kg             | Analyze         | d By: JH     |      |            | S-04          |      |          |
|--------------------------------------|------------------------|-----------------|-----------------|--------------|------|------------|---------------|------|----------|
| Analyte                              | Result                 | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifie |
| Benzene*                             | <1.00                  | 1.00            | 06/29/2024      | ND           | 1.97 | 98.7       | 2.00          | 10.2 |          |
| Toluene*                             | 2.28                   | 1.00            | 06/29/2024      | ND           | 1.97 | 98.3       | 2.00          | 9.33 | GC-NC    |
| Ethylbenzene*                        | 13.5                   | 1.00            | 06/29/2024      | ND           | 2.07 | 104        | 2.00          | 8.85 | GC-NC    |
| Total Xylenes*                       | 46.2                   | 3.00            | 06/29/2024      | ND           | 6.11 | 102        | 6.00          | 8.58 | GC-NC    |
| Total BTEX                           | 62.0                   | 6.00            | 06/29/2024      | ND           |      |            |               |      | GC-NC    |
| Surrogate: 4-Bromofluorobenzene (PID | 144 9                  | % 71.5-13       | 4               |              |      |            |               |      |          |
| Chloride, SM4500Cl-B                 | mg/kg                  |                 | Analyzed By: AC |              |      |            |               |      |          |
| Analyte                              | Result                 | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifie |
| Chloride                             | 16.0                   | 16.0            | 06/28/2024      | ND           | 416  | 104        | 400           | 3.92 |          |
| TPH 8015M                            | <b>16.0</b> 16.0 mg/kg |                 | Analyze         | d By: MS     |      |            |               |      | S-04     |
| Analyte                              | Result                 | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifie |
| GRO C6-C10*                          | 2270                   | 10.0            | 06/28/2024      | ND           | 170  | 84.8       | 200           | 1.84 |          |
| DRO >C10-C28*                        | 3370                   | 10.0            | 06/28/2024      | ND           | 176  | 87.9       | 200           | 4.71 |          |
| EXT DRO >C28-C36                     | 31.4                   | 10.0            | 06/28/2024      | ND           |      |            |               |      |          |
| Surrogate: 1-Chlorooctane            | 339 9                  | % 48.2-13       | 4               |              |      |            |               |      |          |
| Surrogate: 1-Chlorooctadecane        | 115 9                  | % 49.1-14       | 0               |              |      |            |               |      |          |

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\*=Accredited Analyte

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Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 06/27/2024 Sampling Date: 06/26/2024 Reported: 07/01/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Shalyn Rodriguez Project Location: EDDY CO., NM

#### Sample ID: BS - 02 5 (H243870-02)

| Analyte                              | mg/    | 'kg             | Analyze         | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
|                                      | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/29/2024      | ND           | 1.97 | 98.7       | 2.00          | 10.2 |           |
| Toluene*                             | <0.050 | 0.050           | 06/29/2024      | ND           | 1.97 | 98.3       | 2.00          | 9.33 |           |
| Ethylbenzene*                        | 0.104  | 0.050           | 06/29/2024      | ND           | 2.07 | 104        | 2.00          | 8.85 | GC-NC1    |
| Total Xylenes*                       | 0.214  | 0.150           | 06/29/2024      | ND           | 6.11 | 102        | 6.00          | 8.58 | GC-NC1    |
| Total BTEX                           | 0.318  | 0.300           | 06/29/2024      | ND           |      |            |               |      | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 110 %  | % 71.5-13       | 4               |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | 'kg             | Analyzed By: CT |              |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 16.0   | 16.0            | 06/28/2024      | ND           | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                            | mg/    | kg              | Analyzed By: MS |              |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/28/2024      | ND           | 170  | 84.8       | 200           | 1.84 |           |
| DRO >C10-C28*                        | 45.0   | 10.0            | 06/28/2024      | ND           | 176  | 87.9       | 200           | 4.71 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/28/2024      | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 113 %  | 48.2-13         | 4               |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 122 9  | % 49.1-14       | 8               |              |      |            |               |      |           |

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#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 06/27/2024 Sampling Date: 06/26/2024 Reported: 07/01/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Shalyn Rodriguez Project Location: EDDY CO., NM

#### Sample ID: SW - 01 0-5 (H243870-03)

| BTEX 8021B<br>Analyte                | mg/    | ′kg             | Analyze         | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
|                                      | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/29/2024      | ND           | 1.97 | 98.7       | 2.00          | 10.2 |           |
| Toluene*                             | 0.090  | 0.050           | 06/29/2024      | ND           | 1.97 | 98.3       | 2.00          | 9.33 | GC-NC1    |
| Ethylbenzene*                        | 1.50   | 0.050           | 06/29/2024      | ND           | 2.07 | 104        | 2.00          | 8.85 | GC-NC1    |
| Total Xylenes*                       | 3.78   | 0.150           | 06/29/2024      | ND           | 6.11 | 102        | 6.00          | 8.58 | GC-NC1    |
| Total BTEX                           | 5.37   | 0.300           | 06/29/2024      | ND           |      |            |               |      | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 235 9  | % 71.5-13       | 4               |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/kg  |                 | Analyzed By: CT |              |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 48.0   | 16.0            | 06/28/2024      | ND           | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                            | mg/    | ′kg             | Analyzed By: MS |              |      |            |               |      | S-04      |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | 372    | 10.0            | 06/28/2024      | ND           | 170  | 84.8       | 200           | 1.84 |           |
| DRO >C10-C28*                        | 1430   | 10.0            | 06/28/2024      | ND           | 176  | 87.9       | 200           | 4.71 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/28/2024      | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 166 9  | % 48.2-13       | 4               |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 124 9  | % 49.1-14       | 8               |              |      |            |               |      |           |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



NONE GIVEN

EDDY CO., NM

Shalyn Rodriguez

Sample Received By:

#### Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 06/27/2024 Sampling Date: 06/26/2024 07/01/2024 Sampling Type: Soil RIO STATE #3 Sampling Condition: Cool & Intact

#### Sample ID: SW - 02 0-5 (H243870-04)

Received:

Reported:

Project Name:

Project Number:

Project Location:

| BTEX 8021B Analyte                   | mg/    | 'kg             | Analyze         | d By: JH     |      |            |               |      |              |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|--------------|
|                                      | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier    |
| Benzene*                             | <1.00  | 1.00            | 06/29/2024      | ND           | 1.97 | 98.7       | 2.00          | 10.2 | S-04         |
| Toluene*                             | 5.11   | 1.00            | 06/29/2024      | ND           | 1.97 | 98.3       | 2.00          | 9.33 | GC-NC1, S-04 |
| Ethylbenzene*                        | 27.1   | 1.00            | 06/29/2024      | ND           | 2.07 | 104        | 2.00          | 8.85 | GC-NC1, S-04 |
| Total Xylenes*                       | 93.4   | 3.00            | 06/29/2024      | ND           | 6.11 | 102        | 6.00          | 8.58 | GC-NC1, S-04 |
| Total BTEX                           | 126    | 6.00            | 06/29/2024      | ND           |      |            |               |      | GC-NC1, S-04 |
| Surrogate: 4-Bromofluorobenzene (PID | 180 9  | % 71.5-13       | 4               |              |      |            |               |      |              |
| Chloride, SM4500Cl-B                 | mg/    | 'kg             | Analyzed By: CT |              |      |            |               |      |              |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier    |
| Chloride                             | 16.0   | 16.0            | 06/28/2024      | ND           | 416  | 104        | 400           | 0.00 |              |
| TPH 8015M                            | mg/kg  |                 | Analyzed By: MS |              |      |            |               |      | S-04         |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier    |
| GRO C6-C10*                          | 3990   | 10.0            | 06/28/2024      | ND           | 170  | 84.8       | 200           | 1.84 |              |
| DRO >C10-C28*                        | 5370   | 10.0            | 06/28/2024      | ND           | 176  | 87.9       | 200           | 4.71 |              |
| EXT DRO >C28-C36                     | 46.1   | 10.0            | 06/28/2024      | ND           |      |            |               |      |              |
| Surrogate: 1-Chlorooctane            | 490 9  | 48.2-13         | 4               |              |      |            |               |      |              |
| Surrogate: 1-Chlorooctadecane        | 109 9  | % 49.1-14       | 8               |              |      |            |               |      |              |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



NONE GIVEN

EDDY CO., NM

Shalyn Rodriguez

Sample Received By:

#### Analytical Results For:

MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 06/27/2024 Sampling Date: 06/26/2024 07/01/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact

#### Sample ID: SW - 03 0-5 (H243870-05)

Received:

Reported:

Project Number:

Project Location:

| BTEX 8021B<br>Analyte                | mg/    | mg/kg Analyzed By: JH |                 |              |      |            |               |      |              |
|--------------------------------------|--------|-----------------------|-----------------|--------------|------|------------|---------------|------|--------------|
|                                      | Result | Reporting Limit       | Analyzed        | Method Blank | BS % | % Recovery | True Value QC | RPD  | Qualifier    |
| Benzene*                             | <0.500 | 0.500                 | 06/29/2024      | ND           | 1.97 | 98.7       | 2.00          | 10.2 | S-04         |
| Toluene*                             | 0.985  | 0.500                 | 06/29/2024      | ND           | 1.97 | 98.3       | 2.00          | 9.33 | GC-NC1, S-04 |
| Ethylbenzene*                        | 7.19   | 0.500                 | 06/29/2024      | ND           | 2.07 | 104        | 2.00          | 8.85 | GC-NC1, S-04 |
| Total Xylenes*                       | 29.1   | 1.50                  | 06/29/2024      | ND           | 6.11 | 102        | 6.00          | 8.58 | GC-NC1, S-04 |
| Total BTEX                           | 37.3   | 3.00                  | 06/29/2024      | ND           |      |            |               |      | GC-NC1, S-04 |
| Surrogate: 4-Bromofluorobenzene (PID | 169    | % 71.5-13             | 24              |              |      |            |               |      |              |
| Chloride, SM4500Cl-B                 | mg/kg  |                       | Analyzed By: CT |              |      |            |               |      |              |
| Analyte                              | Result | Reporting Limit       | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier    |
| Chloride                             | 32.0   | 16.0                  | 06/28/2024      | ND           | 416  | 104        | 400           | 0.00 |              |
| TPH 8015M                            | mg/kg  |                       | Analyze         | d By: MS     |      |            |               |      | S-04         |
| Analyte                              | Result | Reporting Limit       | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier    |
| GRO C6-C10*                          | 1520   | 10.0                  | 06/28/2024      | ND           | 170  | 84.8       | 200           | 1.84 |              |
| DRO >C10-C28*                        | 2700   | 10.0                  | 06/28/2024      | ND           | 176  | 87.9       | 200           | 4.71 |              |
| EXT DRO >C28-C36                     | 20.2   | 10.0                  | 06/28/2024      | ND           |      |            |               |      |              |
| Surrogate: 1-Chlorooctane            | 280    | % 48.2-13             | 4               |              |      |            |               |      |              |
| Surrogate: 1-Chlorooctadecane        | 115 9  | % 49.1-14             | 18              |              |      |            |               |      |              |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 06/27/2024 Sampling Date: 06/27/2024 Reported: 07/01/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez Project Number: NONE GIVEN Project Location: EDDY CO., NM

### Sample ID: BS - 03 5 (H243870-06)

| BTEX 8021B                           | mg/    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/29/2024 | ND           | 1.97 | 98.7       | 2.00          | 10.2 |           |
| Toluene*                             | <0.050 | 0.050           | 06/29/2024 | ND           | 1.97 | 98.3       | 2.00          | 9.33 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/29/2024 | ND           | 2.07 | 104        | 2.00          | 8.85 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/29/2024 | ND           | 6.11 | 102        | 6.00          | 8.58 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/29/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 98.7   | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B mg/kg           |        |                 | Analyze    | d By: CT     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 208    | 16.0            | 06/28/2024 | ND           | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/28/2024 | ND           | 170  | 84.8       | 200           | 1.84 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/28/2024 | ND           | 176  | 87.9       | 200           | 4.71 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/28/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 124    | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 132    | % 49.1-14       | 8          |              |      |            |               |      |           |

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 06/27/2024 Sampling Date: 06/27/2024 Reported: 07/01/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Shalyn Rodriguez Project Location: EDDY CO., NM

### Sample ID: SW - 04 0-5 (H243870-07)

| BTEX 8021B                           | mg/    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/29/2024 | ND           | 1.97 | 98.7       | 2.00          | 10.2 |           |
| Toluene*                             | <0.050 | 0.050           | 06/29/2024 | ND           | 1.97 | 98.3       | 2.00          | 9.33 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/29/2024 | ND           | 2.07 | 104        | 2.00          | 8.85 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/29/2024 | ND           | 6.11 | 102        | 6.00          | 8.58 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/29/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 98.4   | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B mg/kg           |        |                 | Analyze    | d By: CT     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 32.0   | 16.0            | 06/28/2024 | ND           | 416  | 104        | 400           | 0.00 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/28/2024 | ND           | 170  | 84.8       | 200           | 1.84 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/28/2024 | ND           | 176  | 87.9       | 200           | 4.71 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/28/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 94.5   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 104    | % 49.1-14       | 8          |              |      |            |               |      |           |

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\*=Accredited Analyte

Celecz 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.                                    |
|--------|---|
| GC-NC1 | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds. |
| 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

| FORM-006 R 3.2 10/07/21 | Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other: | Relinquished By: | anda  | client, its subsidiaries, i<br>Relinguished By:   | PLEASE NOTE: Liabil  |   |            | 1       | e       | S       | t       | w       | e       | -       | Lab I.D.<br>HA43870       | FOR LAB LISE ONLY | Sampler Name: An                               | Project Location: Eddy Co, NM | Project Name: Rio State #3 | Project #:                               | Phone #:   | City: Hobbs   | Address: 5014 W Carlsbad Hwy | Project Manager: Dimitry Nikanorov | Company Name: McNabb Partners |  |              |
|-------------------------|--|------------------|---|---|--|---|------------|---------|---------|---------|---------|---------|---------|---------|---------------------------|-------------------|--|-------------------------------|----------------------------|--|------------|---------------|------------------------------|------------------------------------|-------------------------------|--|--------------|
| 3.2 10/07/21            |  |                  | hu  | deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without lim<br>clent, its subsidiaries, affiliates or successors arising out or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated exponses or otherwise.<br>Refinancished By: Date: Date: Developed By: Date: Developed By: Date: Developed By: Date: Date: Developed By: Date: | PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the |   |            | SW-04   | BS-03   | SW-03   | SW-02   | SW-01   | BS-02   | BS-01   | Sample I.D.               |                   | Sampler Name: Andrew Parker, Dimitry Nikanorov | ddy Co, NM                    | State #3                   |  | 9174976890 |               | arlsbad Hwy                  | Dimitry Nikanorov                  | IcNabb Partners               | 101 East Mar<br>(575) 393-2  | Laboratories |
|                         | Corrected Temp. "C   | Date:<br>Time:   | 12171 mm  | ng out of or related to 1   | liability and client's ex  |   |            | 0-5     | σ       | 0-5     | 0-5     | 0-5     | 5       | 5       | e I.D.                    |                   | likanorov                                      |                               |                            | Projec                                   | Fax #:     | State: NM Zij |                              |                                    |                               | 101 East Marland, Hobbs, NM 88240<br>(575) 393-2326 FAX (575) 393-2476 | ories        |
|                         | ſ  | Rec              |   | 0 days a  | clusive  | + |            | 0       | C       | C       | 0       | 0       | C       | C       | (G)RAB OR (C)OMP.         | -                 |  |                               |                            | Project Owner: Murchison Oil & Gas City: |            | Zip: 88220    |                              |                                    |                               | 88240  |              |
| -                       |  | Received By      | R   | ays after comple<br>performance of<br>Received Ru-  | remedy   |   |            | -       | 1       | -       | -       | -4      | 1       | -       | # CONTAINERS              | _                 |  |                               |                            | er: Mu                                   |            | 0             |                              |                                    |                               |  |              |
|                         | Sample Co<br>Intact<br>Ves<br>No                           | By:              | Q.  | e of se   | for an   | + | +          | -       | -       | -       | -       | -       | -       | _       | GROUNDWATER<br>WASTEWATER |                   |  |                               |                            | rchise                                   |            |               |                              |                                    |                               |  |              |
|                         | Sample Condition Cool<br>Intact<br>Ves Ves                 |                  | 2   | Nices I   | y claim  |   |            | ×       | ×       | ×       | ×       | ×       | ×       | ×       | SOIL                      | MATRIX            |  |                               |                            | on Oil                                   |            |               |                              |                                    |                               |  |              |
|                         | dition Co  |                  | 2   | e applic  | arising  | + | +          | -       |         |         |         |         | -       | -       | OIL<br>SLUDGE             | RIX               |  |                               |                            | & Gas                                    |            |               |                              |                                    |                               |  |              |
|                         | <u>×</u>   |                  | Q   | der by (  | wheth  | - | -          | -       |         |         |         | _       | _       |         | OTHER :<br>ACID/BASE:     | P                 | Fax #:   | Pho                           | State:                     | City                                     | Add        | Attn:         | Com                          | P.O. #:                            |                               | 1  |              |
|                         | Ag   |                  | ×   | Cardina   | er base  | - |            | ×       | ×       | ×       | ×       | ×       | ×       | ×       |                           | PRESERV.          | 井  | Phone #:                      | 6:                         | "  | Address:   |               | ipany:                       | 井                                  |                               |  |              |
|                         | (Initials)   |                  | 2   | In no e<br>I, rega  | d in co  | + | -          | 6       | 6       | 6       | 6       | 6       | 6       | 0       | OTHER :                   | W.                |  |                               | Z                          |  |            |               | McNa                         |                                    | BILL                          |  |              |
|                         | BX   | 9                | 5   | rdless o  | ntract o   |   |            | 6/27/24 | 6/27/24 | 6/26/24 | 6/26/24 | 6/26/24 | 6/26/24 | 6/26/24 | DATE                      | SP                |  |                               | Zip:                       |  |            |               | abb Pa                       |                                    | .70                           |  |              |
|                         | S ₹  | RE               | All   | f wheth   | or lort, a   | + | +          | _       |         |         |         |         |         | 1       |                           | SAMPLING          |  |                               |                            |  |            |               | Company: McNabb Partners     |                                    |                               |  |              |
|                         | Turni<br>ermon   | REMARKS          | All Results are<br>andrew@mcna  | dinal be  | shall be   |   |            | 13:00   | 12:30   | 13:20   | 13:00   | 12:40   | 12:20   | 12:00   | TIME                      | G                 |  |                               |                            |  |            |               |                              |                                    |                               |  |              |
|                         | Turnaround Time<br>Thermometer ID<br>Correction Factor     |                  | All Results are emailed. Please provide Email address: dmitrynikanorov1@gmail.com, dimitry@mcnabbpartners.com,<br>andrew@mcnabbpartners.com | liable fo   | limited t  | + | +          | ×       | ×       | ×       | ×       | ×       | ×       | ×       | Chloride                  |                   | _  |                               |                            | _  |            | _             | _                            | -                                  |                               |  |              |
|                         | Time   |                  | ailed. F  | based   | o the an   | + | +          |         |         | ×       | -       |         |         | -       | трн                       |                   |  | -                             | -                          | -  | -          | -             | -                            | -                                  |                               |  |              |
|                         | 1  |                  | please<br>s.com   | upon any  | nount p  | + | +          | ×       | ×       |         | _       |         | _       | _       |                           |                   |  | _                             |                            | _  | _          | _             | _                            | -                                  | AN                            |  |              |
|                         | 48 HRs R   |                  | provide   | onsequences   | aid by t   | + | +          | ×       | ×       | ×       | ×       | ×       | ×       | ×       | BTEX                      |                   |  |                               |                            |  | _          |               | _                            | _                                  | ANALYSIS                      |  |              |
|                         | Is RUST  |                  | Email   | e above   | he clien   |   |            |         |         |         |         |         |         |         |                           |                   | _  |                               |                            |  | _          |               |                              |                                    |                               |  |              |
|                         |  | /                | address: dmitr  | amage<br>stated   | t for the  |   |            |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    | REQUEST                       |  |              |
|                         | Cool Intact  |                  | is: dmi   |   |  |   |            |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    | JEST                          |  |              |
|                         |  |                  | trynika   | ding wi   | yses, A  | + | $\uparrow$ |         |         |         |         |         |         |         |                           | -                 | -  |                               | -                          | -  |            |               | _                            |                                    |                               |  |              |
| Ľ                       | Observed Temp - "C<br>Corrected Temp. "C                   |                  | norov   | thout lin   | II daim  | + | +          |         |         | -       | -       | -       | -       | -       |                           |                   |  | -                             | -                          | -  | -          | -             | -                            | -                                  |                               |  |              |
|                         | ed Ten<br>led Ten  |                  | (@gma   | nitation  | s inclu  | + | +          | -       | -       | -       | -       | -       | -       | -       |                           | -                 | _  | _                             | _                          | -  | -          | -             | -                            | -                                  |                               |  |              |
|                         | 1p. "C   |                  | il.com,   | busin   | ding th  | + | -          | _       |         | _       | _       | _       | _       | _       |                           |                   | _  |                               |                            | _  | _          | _             | _                            | _                                  |                               |  |              |
|                         |  |                  | dimitr  | ess inte  | ose for  | _ |            |         |         |         |         | _       | _       | _       |                           |                   |  | _                             | _                          |  |            | _             | _                            |                                    |                               |  |              |
|                         |  |                  | y@mcr   | muptio  | neglige  |   |            |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    |                               |  |              |
|                         |  |                  | habbpa  | ns, loss  | Ince an  | 1 | T          |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    |                               |  |              |
|                         |  |                  | rtners  | ofuse   | d any o  |   |            |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    |                               |  |              |
|                         |  |                  | .com,   | damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by<br>e stated reasons or otherwise.<br>I addet blaces at   | analyses. All claims including those for negligence and any other cause whatsoever shall be  |   |            |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    |                               |  |              |
|                         |  |                  |   | s of pro  | luse wh  |   |            |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    |                               |  |              |
|                         |  |                  |   | fits inc  | atsoev   |   |            |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    |                               |  |              |
|                         |  |                  |   | urred b   | er shall   |   |            |         |         |         |         |         |         |         |                           |                   |  |                               |                            |  |            |               |                              |                                    |                               |  |              |

### Received by OCD: 9/26/2024 12:55:51 PM

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 10 of 10



July 08, 2024

ANDREW PARKER

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: RIO STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 06/28/24 16:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 06/28/2024                     | Sampling Date:      | 06/28/2024    |
|-------------------|--------------------------------|---------------------|---------------|
| Reported:         | 07/08/2024                     | Sampling Type:      | Soil          |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Alyssa Parras |
| Project Location: | EDDY CO., NM                   |                     |               |

### Sample ID: WS - 08 0-2' (H243921-01)

| BTEX 8021B                           | mg     | /kg             | Analyze    | d By: JH     |      |            |               |        | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/05/2024 | ND           | 1.99 | 99.5       | 2.00          | 2.10   |           |
| Toluene*                             | <0.050 | 0.050           | 07/05/2024 | ND           | 2.08 | 104        | 2.00          | 1.52   | GC-NC     |
| Ethylbenzene*                        | 1.42   | 0.050           | 07/05/2024 | ND           | 2.12 | 106        | 2.00          | 0.805  | GC-NC1    |
| Total Xylenes*                       | 2.57   | 0.150           | 07/05/2024 | ND           | 6.25 | 104        | 6.00          | 0.851  | GC-NC1    |
| Total BTEX                           | 3.98   | 0.300           | 07/05/2024 | ND           |      |            |               |        | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 201    | % 71.5-13       | 4          |              |      |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/kg  |                 | Analyze    | d By: AC     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | 16.0   | 16.0            | 07/05/2024 | ND           | 416  | 104        | 400           | 3.92   |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | 73.2   | 10.0            | 07/03/2024 | ND           | 217  | 109        | 200           | 0.908  |           |
| DRO >C10-C28*                        | 255    | 10.0            | 07/03/2024 | ND           | 215  | 108        | 200           | 0.0195 | QM-07     |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/03/2024 | ND           |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 113 9  | % 48.2-13       | 4          |              |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 103    | % 49.1-14       | 8          |              |      |            |               |        |           |

### Cardinal Laboratories

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



EDDY CO., NM

### Analytical Results For:

MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 06/28/2024 Sampling Date: 06/28/2024 Reported: 07/08/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: 20220103-MURCHISON - RIOSTATE3 Alyssa Parras

### Sample ID: WS - 08 2-4' (H243921-02)

Project Location:

| BTEX 8021B                           | mg                         | /kg             | Analyze         | d By: JH     |      |            |               |        | S-04      |
|--------------------------------------|----------------------------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result                     | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.100                     | 0.100           | 07/06/2024      | ND           | 1.99 | 99.5       | 2.00          | 2.10   |           |
| Toluene*                             | <0.100                     | 0.100           | 07/06/2024      | ND           | 2.08 | 104        | 2.00          | 1.52   | GC-NC     |
| Ethylbenzene*                        | 9.80                       | 0.100           | 07/06/2024      | ND           | 2.12 | 106        | 2.00          | 0.805  | GC-NC1    |
| Total Xylenes*                       | 39.3                       | 0.300           | 07/06/2024      | ND           | 6.25 | 104        | 6.00          | 0.851  | GC-NC1    |
| Total BTEX                           | 49.1                       | 0.600           | 07/06/2024      | ND           |      |            |               |        | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 445                        | % 71.5-13       | 4               |              |      |            |               |        |           |
| Chloride, SM4500Cl-B                 | Chloride, SM4500Cl-B mg/kg |                 | Analyzed By: AC |              |      |            |               |        |           |
| Analyte                              | Result                     | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | <16.0                      | 16.0            | 07/05/2024      | ND           | 416  | 104        | 400           | 3.92   |           |
| TPH 8015M                            | mg/                        | /kg             | Analyze         | d By: MS     |      |            |               |        | S-04      |
| Analyte                              | Result                     | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | 782                        | 10.0            | 07/03/2024      | ND           | 217  | 109        | 200           | 0.908  |           |
| DRO >C10-C28*                        | 2100                       | 10.0            | 07/03/2024      | ND           | 215  | 108        | 200           | 0.0195 |           |
| EXT DRO >C28-C36                     | 23.9                       | 10.0            | 07/03/2024      | ND           |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 188                        | % 48.2-13       | 4               |              |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 105                        | % 49.1-14       | 8               |              |      |            |               |        |           |

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### \*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 06/28/2024                     | Sampling Date:      | 06/28/2024    |
|-------------------|--------------------------------|---------------------|---------------|
| Reported:         | 07/08/2024                     | Sampling Type:      | Soil          |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Alyssa Parras |
| Project Location: | EDDY CO., NM                   |                     |               |

### Sample ID: WS - 08 5' (H243921-03)

| BTEX 8021B                           | mg     | ′kg             | Analyze    | d By: JH     |      |            |               |        | S-04         |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|--------------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier    |
| Benzene*                             | <0.050 | 0.050           | 07/04/2024 | ND           | 1.91 | 95.5       | 2.00          | 0.998  |              |
| Toluene*                             | <0.050 | 0.050           | 07/04/2024 | ND           | 1.90 | 95.2       | 2.00          | 1.52   | GC-NC        |
| Ethylbenzene*                        | 2.80   | 0.050           | 07/04/2024 | ND           | 2.01 | 100        | 2.00          | 1.63   | GC-NC1, QM-0 |
| Total Xylenes*                       | 9.59   | 0.150           | 07/04/2024 | ND           | 5.92 | 98.7       | 6.00          | 1.58   | GC-NC1, QM-0 |
| Total BTEX                           | 12.4   | 0.300           | 07/04/2024 | ND           |      |            |               |        | GC-NC1       |
| Surrogate: 4-Bromofluorobenzene (PID | 344    | % 71.5-13       | 4          |              |      |            |               |        |              |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: AC     |      |            |               |        |              |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier    |
| Chloride                             | <16.0  | 16.0            | 07/05/2024 | ND           | 416  | 104        | 400           | 3.92   |              |
| TPH 8015M                            | mg,    | ′kg             | Analyze    | d By: MS     |      |            |               |        | S-04         |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier    |
| GRO C6-C10*                          | 758    | 10.0            | 07/03/2024 | ND           | 217  | 109        | 200           | 0.908  |              |
| DRO >C10-C28*                        | 1760   | 10.0            | 07/03/2024 | ND           | 215  | 108        | 200           | 0.0195 |              |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/03/2024 | ND           |      |            |               |        |              |
| Surrogate: 1-Chlorooctane            | 175    | % 48.2-13       | 4          |              |      |            |               |        |              |
| Surrogate: 1-Chlorooctadecane        | 96.1   | % 49.1-14       | 8          |              |      |            |               |        |              |

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### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



06/28/2024

### Analytical Results For:

MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 06/28/2024 Sampling Date: 07/08/2024

| Receiveu.         | 00/20/2024                     | Sampling Date.      | 00/20/2024    |
|-------------------|--------------------------------|---------------------|---------------|
| Reported:         | 07/08/2024                     | Sampling Type:      | Soil          |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Alyssa Parras |
| Project Location: | EDDY CO., NM                   |                     |               |

### Sample ID: WS - 09 0-2' (H243921-04)

Rocaivad.

| BTEX 8021B                           | mg     | /kg             | Analyze         | d By: JH     |      |            |               |        |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/04/2024      | ND           | 1.91 | 95.5       | 2.00          | 0.998  |           |
| Toluene*                             | <0.050 | 0.050           | 07/04/2024      | ND           | 1.90 | 95.2       | 2.00          | 1.52   |           |
| Ethylbenzene*                        | 0.174  | 0.050           | 07/04/2024      | ND           | 2.01 | 100        | 2.00          | 1.63   | GC-NC1    |
| Total Xylenes*                       | 0.522  | 0.150           | 07/04/2024      | ND           | 5.92 | 98.7       | 6.00          | 1.58   | GC-NC1    |
| Total BTEX                           | 0.696  | 0.300           | 07/04/2024      | ND           |      |            |               |        | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 123    | % 71.5-13       | 4               |              |      |            |               |        |           |
| nloride, SM4500Cl-B mg/kg            |        |                 | Analyzed By: AC |              |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | 112    | 16.0            | 07/05/2024      | ND           | 416  | 104        | 400           | 3.92   |           |
| TPH 8015M                            | mg     | /kg             | Analyze         | d By: MS     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | 74.9   | 10.0            | 07/03/2024      | ND           | 217  | 109        | 200           | 0.908  |           |
| DRO >C10-C28*                        | 2560   | 10.0            | 07/03/2024      | ND           | 215  | 108        | 200           | 0.0195 |           |
| EXT DRO >C28-C36                     | 92.7   | 10.0            | 07/03/2024      | ND           |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 109    | % 48.2-13       | 4               |              |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 99.8   | % 49.1-14       | 8               |              |      |            |               |        |           |

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Alyssa Parras

Sample Received By:

### Analytical Results For:

MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 06/28/2024 Sampling Date: 06/28/2024 07/08/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact

20220103-MURCHISON - RIOSTATE3

EDDY CO., NM

### Sample ID: WS - 09 2-4' (H243921-05)

Received:

Reported:

Project Number:

Project Location:

| BTEX 8021B                           | mg/    | kg              | Analyze         | d By: JH     |      |            |               | S-04   |           |  |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|--|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |
| Benzene*                             | <0.050 | 0.050           | 07/04/2024      | ND           | 1.91 | 95.5       | 2.00          | 0.998  |           |  |
| Toluene*                             | <0.050 | 0.050           | 07/04/2024      | ND           | 1.90 | 95.2       | 2.00          | 1.52   | GC-NC     |  |
| Ethylbenzene*                        | 2.86   | 0.050           | 07/04/2024      | ND           | 2.01 | 100        | 2.00          | 1.63   | GC-NC     |  |
| Total Xylenes*                       | 10.0   | 0.150           | 07/04/2024      | ND           | 5.92 | 98.7       | 6.00          | 1.58   | GC-NC     |  |
| Total BTEX                           | 12.9   | 0.300           | 07/04/2024      | ND           |      |            |               |        | GC-NC     |  |
| Surrogate: 4-Bromofluorobenzene (PID | 327 9  | % 71.5-13       | 4               |              |      |            |               |        |           |  |
| Chloride, SM4500Cl-B                 | mg/    | kg              | Analyzed By: CT |              |      |            |               |        |           |  |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |
| Chloride                             | 16.0   | 16.0            | 07/05/2024      | ND           | 432  | 108        | 400           | 0.00   |           |  |
| TPH 8015M                            | mg/    | kg              | Analyze         | d By: MS     |      |            |               | S-04   |           |  |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |
| GRO C6-C10*                          | 1170   | 10.0            | 07/04/2024      | ND           | 217  | 109        | 200           | 0.908  |           |  |
| DRO >C10-C28*                        | 2960   | 10.0            | 07/04/2024      | ND           | 215  | 108        | 200           | 0.0195 |           |  |
| EXT DRO >C28-C36                     | 26.8   | 10.0            | 07/04/2024      | ND           |      |            |               |        |           |  |
| Surrogate: 1-Chlorooctane            | 230 9  | 6 48.2-13       | 4               |              |      |            |               |        |           |  |
| Surrogate: 1-Chlorooctadecane        | 110 9  | 6 49.1-14       | 8               |              |      |            |               |        |           |  |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 06/28/2024                     | Sampling Date:      | 06/28/2024    |
|-------------------|--------------------------------|---------------------|---------------|
| Reported:         | 07/08/2024                     | Sampling Type:      | Soil          |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Alyssa Parras |
| Project Location: | EDDY CO., NM                   |                     |               |

### Sample ID: WS - 09 5' (H243921-06)

| BTEX 8021B                           | mg/           | /kg             | Analyze         | d By: JH        |      |            |               |        |           |  |  |
|--------------------------------------|---------------|-----------------|-----------------|-----------------|------|------------|---------------|--------|-----------|--|--|
| Analyte                              | Result        | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |  |
| Benzene*                             | <0.050        | 0.050           | 07/04/2024      | ND              | 1.91 | 95.5       | 2.00          | 0.998  |           |  |  |
| Toluene*                             | <0.050        | 0.050           | 07/04/2024      | ND              | 1.90 | 95.2       | 2.00          | 1.52   |           |  |  |
| Ethylbenzene*                        | 0.079         | 0.050           | 07/04/2024      | ND              | 2.01 | 100        | 2.00          | 1.63   | GC-NC1    |  |  |
| Total Xylenes*                       | 0.196         | 0.150           | 07/04/2024      | ND              | 5.92 | 98.7       | 6.00          | 1.58   | GC-NC1    |  |  |
| Total BTEX                           | <0.300        | 0.300           | 07/04/2024      | ND              |      |            |               |        |           |  |  |
| Surrogate: 4-Bromofluorobenzene (PID | 107 % 71.5-13 |                 | 4               |                 |      |            |               |        |           |  |  |
| Chloride, SM4500Cl-B                 | mg,           | /kg             | Analyzed By: CT |                 |      |            |               |        |           |  |  |
| Analyte                              | Result        | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |  |
| Chloride                             | <16.0         | 16.0            | 07/05/2024      | ND              | 432  | 108        | 400           | 0.00   |           |  |  |
| TPH 8015M                            | mg/           | /kg             | Analyze         | Analyzed By: MS |      |            |               |        |           |  |  |
| Analyte                              | Result        | Reporting Limit | Analyzed        | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |  |  |
| GRO C6-C10*                          | <10.0         | 10.0            | 07/04/2024      | ND              | 217  | 109        | 200           | 0.908  |           |  |  |
| DRO >C10-C28*                        | 39.7          | 10.0            | 07/04/2024      | ND              | 215  | 108        | 200           | 0.0195 |           |  |  |
| EXT DRO >C28-C36                     | <10.0         | 10.0            | 07/04/2024      | ND              |      |            |               |        |           |  |  |
| Surrogate: 1-Chlorooctane            | 104           | % 48.2-13       | 4               |                 |      |            |               |        |           |  |  |
| Surrogate: 1-Chlorooctadecane        | 106           | % 49.1-14       | 8               |                 |      |            |               |        |           |  |  |

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Celez 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.                                    |
|--------|---|
| QM-07  | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.                  |
| GC-NC1 | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds. |
| GC-NC  | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.                         |
| 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**

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose share there applied by the services arise of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

## aboratories

CHAIN-OF-CUSTODY AND AN/ALYSIS REQUEST

Project Manager: City: Company Name: Mc Nabb Partners Project Location: Rio State Project Name: 20220103-MURCHISON-RibStrates Project #: Phone #: Sampler Name: Christopher Address: Retinquished By: Relinquished By: 24392 FOR LAB USE ONLY Sampler - UPS - Bus - Other: Delivered By: (Circle One) Lab I.D. EASE NOTE: List 5 2 In no event shall Cards NE 2 All classes Dn-File Duppri 101 East Marland, Hobbs, NM 88240 ξ 22 S 5 (575) 393-2326 FAX (575) 393-2476 Andrew Parker 50 80-51 -08 V 100 Sample I.D. Observed Temp. °C 3 curner Project Owner Fax #: State: Time: 3-2FF + HF -2F1 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com 5 AC INCL Zip: (G)RAB OR (C)OMP Received By: WOO Received By: # CONTAINERS GROUNDWATER Cool Intact WASTEWATER Sample Condition MATRIX SOIL OIL SLUDGE P.O. #20220107 Mutchillen Richt State: Fax #: City: OTHER Attn: webreal & feel nucleoper trues con Company Mc Nable Partners OR NOR Phone #: Address ACID/BASE PRESERV ed by Cardinal CHECKED BY: (Initials) or loss of p ICE / COOL BILL OTHER Ð あち Zip e DATE 10 30 days 28 SAMPLING by client, its suit ñ 13:124 13:19 13-1 All Results are emailed. Please provide Email address 3:52 Turnaround Time: Verbal Result: S REMARKS TIME 34 nometer ID #140 action Factor 0°C tion of the app lant for the ò X hloride (cab) GRO+DROTMRO) Ves e Standard Benene £. No ANALYSIS 20 Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp Ves Yes No No Corrected Temp REQUEST Observed Temp. Corrected Temp. °C ô

Page 9 of 9



July 11, 2024

ANDREW PARKER

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: RIO STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 07/03/24 15:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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.tceg.texas.gov/field/ga/lab\_accred\_certif.html">www.tceg.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 | Total Haloacetic Acids (HAA-5) |
|------------------|--------------------------------|
| Method EPA 524.2 | Total Trihalomethanes (TTHM)   |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)    |

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

| Method SM 9223-B | Total Coliform and E. coli (Colilert MMO-MUG)   |
|------------------|---|
| Method EPA 524.2 | Regulated VOCs and Total Trihalomethanes (TTHM) |
| Method EPA 552.2 | Total Haloacetic Acids (HAA-5)                  |

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 | Project: RIO STATE #<br>Project Number: 20220103-MU<br>Project Manager: ANDREW PAF<br>Fax To: (575) 391-84 | IURCHISON - RIOSTAT 11-Jul-24 17:01<br>RKER |  |
|---|--|---|--|
|---|--|---|--|

| Sample ID    | Laboratory ID | Matrix | Date Sampled    | Date Received   |
|--------------|---------------|--------|-----------------|-----------------|
| BS - 07 4'   | H244017-01    | Soil   | 02-Jul-24 14:00 | 03-Jul-24 15:15 |
| BS - 06 4'   | H244017-02    | Soil   | 02-Jul-24 14:12 | 03-Jul-24 15:15 |
| BS - 05 4'   | H244017-03    | Soil   | 02-Jul-24 14:20 | 03-Jul-24 15:15 |
| BS - 04 4'   | H244017-04    | Soil   | 02-Jul-24 14:24 | 03-Jul-24 15:15 |
| WS - 03 0-2' | H244017-05    | Soil   | 02-Jul-24 14:34 | 03-Jul-24 15:15 |
| WS - 03 2-4' | H244017-06    | Soil   | 02-Jul-24 14:38 | 03-Jul-24 15:15 |
| WS - 04 0-2' | H244017-07    | Soil   | 02-Jul-24 14:43 | 03-Jul-24 15:15 |
| WS - 04 2-4' | H244017-08    | Soil   | 02-Jul-24 14:47 | 03-Jul-24 15:15 |
| WS - 05 0-2' | H244017-09    | Soil   | 02-Jul-24 14:51 | 03-Jul-24 15:15 |
| WS - 05 2-4' | H244017-10    | Soil   | 02-Jul-24 14:55 | 03-Jul-24 15:15 |
| WS - 06 0-2' | H244017-11    | Soil   | 02-Jul-24 15:02 | 03-Jul-24 15:15 |
| WS - 06 2-4' | H244017-12    | Soil   | 02-Jul-24 15:09 | 03-Jul-24 15:15 |
|              |               |        |                 |                 |

07/11/24 - Client changed the sample date (see COC). This is the revised report and will replace the one sent on 07/10/24.

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                 | Project: RIO STATE #3<br>Project Number: 20220103-MURCHISON - RIOSTAT<br>Project Manager: ANDREW PARKER<br>Fax To: (575) 391-8484 |                    |                         |          |         |         |           |           |       |
|---|-----------------|---|--------------------|-------------------------|----------|---------|---------|-----------|-----------|-------|
|   |                 |   | - ~                | 5 - 07 4'<br>017-01 (Se | oil)     |         |         |           |           |       |
| Analyte   | Result          | MDL   | Reporting<br>Limit | Units                   | Dilution | Batch   | Analyst | Analyzed  | Method    | Notes |
|   |                 |   | Cardina            | l Laborat               | tories   |         |         |           |           |       |
| <u>Inorganic Compounds</u><br>Chloride                | 80.0            |   | 16.0               | mg/kg                   | 4        | 4070937 | AC      | 09-Jul-24 | 4500-Cl-B |       |
| Volatile Organic Compounds                            | by EPA Method 8 | 021   |                    |                         |          |         |         |           |           |       |
| Benzene*  | < 0.050         |   | 0.050              | mg/kg                   | 50       | 4070904 | JH      | 10-Jul-24 | 8021B     |       |
| Toluene*  | < 0.050         |   | 0.050              | mg/kg                   | 50       | 4070904 | JH      | 10-Jul-24 | 8021B     |       |
| Ethylbenzene*   | < 0.050         |   | 0.050              | mg/kg                   | 50       | 4070904 | JH      | 10-Jul-24 | 8021B     |       |
| Total Xylenes*  | < 0.150         |   | 0.150              | mg/kg                   | 50       | 4070904 | ЛН      | 10-Jul-24 | 8021B     |       |
| Total BTEX  | < 0.300         |   | 0.300              | mg/kg                   | 50       | 4070904 | JH      | 10-Jul-24 | 8021B     |       |
| Surrogate: 4-Bromofluorobenzene (PIL                  | ))              |   | 109 %              | 71.5                    | -134     | 4070904 | ЈН      | 10-Jul-24 | 8021B     |       |
| Petroleum Hydrocarbons by                             | GC FID          |   |                    |                         |          |         |         |           |           |       |
| GRO C6-C10*   | <10.0           |   | 10.0               | mg/kg                   | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| DRO >C10-C28*   | <10.0           |   | 10.0               | mg/kg                   | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| EXT DRO >C28-C36                                      | <10.0           |   | 10.0               | mg/kg                   | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| Surrogate: 1-Chlorooctane                             |                 |   | 72.6 %             | 48.2                    | -134     | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| Surrogate: 1-Chlorooctadecane                         |                 |   | 76.3 %             | 49.1                    | -148     | 4070807 | MS      | 09-Jul-24 | 8015B     |       |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                    | Project: RIO STATE #3<br>Project Number: 20220103-MURCHISON - RIOSTAT<br>Project Manager: ANDREW PARKER<br>Fax To: (575) 391-8484 |                    |            |          |         |         |           |           | 1     |
|---|--------------------|---|--------------------|------------|----------|---------|---------|-----------|-----------|-------|
|   |                    |   | BS                 | 5-06 4'    |          |         |         |           |           |       |
|   |                    |   | H244               | 017-02 (Se | oil)     |         |         |           |           |       |
| Analyte   | Result             | MDL   | Reporting<br>Limit | Units      | Dilution | Batch   | Analyst | Analyzed  | Method    | Notes |
|   |                    |   | Cardina            | l Laborat  | ories    |         |         |           |           |       |
| Inorganic Compounds                                   |                    |   |                    |            |          |         |         |           |           |       |
| Chloride  | 80.0               |   | 16.0               | mg/kg      | 4        | 4070937 | AC      | 09-Jul-24 | 4500-Cl-B |       |
| Volatile Organic Compounds                            | s by EPA Method 80 | )21   |                    |            |          |         |         |           |           |       |
| Benzene*  | < 0.050            |   | 0.050              | mg/kg      | 50       | 4070904 | JH      | 10-Jul-24 | 8021B     |       |
| Toluene*  | < 0.050            |   | 0.050              | mg/kg      | 50       | 4070904 | JH      | 10-Jul-24 | 8021B     |       |
| Ethylbenzene*   | < 0.050            |   | 0.050              | mg/kg      | 50       | 4070904 | JH      | 10-Jul-24 | 8021B     |       |
| Total Xylenes*  | < 0.150            |   | 0.150              | mg/kg      | 50       | 4070904 | JH      | 10-Jul-24 | 8021B     |       |
| Total BTEX  | < 0.300            |   | 0.300              | mg/kg      | 50       | 4070904 | ЈН      | 10-Jul-24 | 8021B     |       |
| Surrogate: 4-Bromofluorobenzene (Pl                   | ID)                |   | 109 %              | 71.5       | -134     | 4070904 | ЈН      | 10-Jul-24 | 8021B     |       |
| Petroleum Hydrocarbons by                             | GC FID             |   |                    |            |          |         |         |           |           |       |
| GRO C6-C10*   | <10.0              |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| DRO >C10-C28*   | <10.0              |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| EXT DRO >C28-C36                                      | <10.0              |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| Surrogate: 1-Chlorooctane                             |                    |   | 83.4 %             | 48.2       | -134     | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| Surrogate: 1-Chlorooctadecane                         |                    |   | 87.6 %             | 49.1       | -148     | 4070807 | MS      | 09-Jul-24 | 8015B     |       |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                   | Project: RIO STATE #3<br>Project Number: 20220103-MURCHISON - RIOSTAT<br>Project Manager: ANDREW PARKER<br>Fax To: (575) 391-8484 |                    |            |          |         |         |           |           | )1    |
|---|-------------------|---|--------------------|------------|----------|---------|---------|-----------|-----------|-------|
|   |                   |   |                    | 5-05 4'    |          |         |         |           |           |       |
|   |                   |   | H244               | 017-03 (So | oil)     |         |         |           |           |       |
| Analyte   | Result            | MDL   | Reporting<br>Limit | Units      | Dilution | Batch   | Analyst | Analyzed  | Method    | Notes |
|   |                   |   | Cardina            | l Laborat  | ories    |         |         |           |           |       |
| <u>Inorganic Compounds</u><br>Chloride                | 64.0              |   | 16.0               | mg/kg      | 4        | 4070937 | AC      | 09-Jul-24 | 4500-Cl-B |       |
| Volatile Organic Compound                             | s by EPA Method 8 | 021   |                    |            |          |         |         |           |           |       |
| Benzene*  | < 0.050           |   | 0.050              | mg/kg      | 50       | 4070905 | JH      | 09-Jul-24 | 8021B     |       |
| Toluene*  | < 0.050           |   | 0.050              | mg/kg      | 50       | 4070905 | ЛН      | 09-Jul-24 | 8021B     |       |
| Ethylbenzene*   | < 0.050           |   | 0.050              | mg/kg      | 50       | 4070905 | ЛН      | 09-Jul-24 | 8021B     |       |
| Total Xylenes*  | < 0.150           |   | 0.150              | mg/kg      | 50       | 4070905 | JH      | 09-Jul-24 | 8021B     |       |
| Total BTEX  | < 0.300           |   | 0.300              | mg/kg      | 50       | 4070905 | JH      | 09-Jul-24 | 8021B     |       |
| Surrogate: 4-Bromofluorobenzene (PL                   | ID)               |   | 101 %              | 71.5       | -134     | 4070905 | JH      | 09-Jul-24 | 8021B     |       |
| Petroleum Hydrocarbons by                             | GC FID            |   |                    |            |          |         |         |           |           |       |
| GRO C6-C10*   | <10.0             |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| DRO >C10-C28*   | <10.0             |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| EXT DRO >C28-C36                                      | <10.0             |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |       |
| Surrogate: 1-Chlorooctane                             |                   |   | 90.2 %             | 48.2       | -134     | 4070807 | MS      | 09-Jul-24 | 8015B     | _     |
| Surrogate: 1-Chlorooctadecane                         |                   |   | 94.9 %             | 49.1       | -148     | 4070807 | MS      | 09-Jul-24 | 8015B     |       |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                   | Project: RIO STATE #3<br>Project Number: 20220103-MURCHISON - RIOSTAT<br>Project Manager: ANDREW PARKER<br>Fax To: (575) 391-8484 |                    |            |          |         |         |           |           | Reported:<br>11-Jul-24 17:01 |  |  |
|---|-------------------|---|--------------------|------------|----------|---------|---------|-----------|-----------|------------------------------|--|--|
|   |                   |   | BS                 | 5-04 4'    |          |         |         |           |           |                              |  |  |
|   |                   |   | H244               | 017-04 (So | oil)     |         |         |           |           |                              |  |  |
| Analyte   | Result            | MDL   | Reporting<br>Limit | Units      | Dilution | Batch   | Analyst | Analyzed  | Method    | Notes                        |  |  |
|   |                   |   | Cardina            | l Laborat  | ories    |         |         |           |           |                              |  |  |
| Inorganic Compounds                                   |                   |   |                    |            |          |         |         |           |           |                              |  |  |
| Chloride  | 80.0              |   | 16.0               | mg/kg      | 4        | 4070937 | AC      | 09-Jul-24 | 4500-Cl-B |                              |  |  |
| Volatile Organic Compounds                            | s by EPA Method 8 | 021   |                    |            |          |         |         |           |           |                              |  |  |
| Benzene*  | < 0.050           |   | 0.050              | mg/kg      | 50       | 4070905 | JH      | 10-Jul-24 | 8021B     |                              |  |  |
| Toluene*  | < 0.050           |   | 0.050              | mg/kg      | 50       | 4070905 | JH      | 10-Jul-24 | 8021B     |                              |  |  |
| Ethylbenzene*   | < 0.050           |   | 0.050              | mg/kg      | 50       | 4070905 | JH      | 10-Jul-24 | 8021B     |                              |  |  |
| Total Xylenes*  | < 0.150           |   | 0.150              | mg/kg      | 50       | 4070905 | JH      | 10-Jul-24 | 8021B     |                              |  |  |
| Total BTEX  | < 0.300           |   | 0.300              | mg/kg      | 50       | 4070905 | ЈН      | 10-Jul-24 | 8021B     |                              |  |  |
| Surrogate: 4-Bromofluorobenzene (Pl                   | (D)               |   | 102 %              | 71.5       | -134     | 4070905 | ЈН      | 10-Jul-24 | 8021B     |                              |  |  |
| Petroleum Hydrocarbons by                             | GC FID            |   |                    |            |          |         |         |           |           |                              |  |  |
| GRO C6-C10*   | <10.0             |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |                              |  |  |
| DRO >C10-C28*   | <10.0             |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |                              |  |  |
| EXT DRO >C28-C36                                      | <10.0             |   | 10.0               | mg/kg      | 1        | 4070807 | MS      | 09-Jul-24 | 8015B     |                              |  |  |
| Surrogate: 1-Chlorooctane                             |                   |   | 95.8 %             | 48.2       | -134     | 4070807 | MS      | 09-Jul-24 | 8015B     |                              |  |  |
| Surrogate: 1-Chlorooctadecane                         |                   |   | 104 %              | 49.1       | -148     | 4070807 | MS      | 09-Jul-24 | 8015B     |                              |  |  |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |         |     | Project Num<br>Project Mana | ber: 202<br>ger: ANI   |          | rchison -<br>Ker | RIOSTAT |           | Reported:<br>11-Jul-24 17:C | )1    |
|---|---------|-----|-----------------------------|------------------------|----------|------------------|---------|-----------|-----------------------------|-------|
|   |         |     |                             | - 03 0-2<br>017-05 (Se |          |                  |         |           |                             |       |
| Analyte   | Result  | MDL | Reporting<br>Limit          | Units                  | Dilution | Batch            | Analyst | Analyzed  | Method                      | Notes |
|   |         |     | Cardina                     | l Laborat              | tories   |                  |         |           |                             |       |
| Inorganic Compounds<br>Chloride                       | 96.0    |     | 16.0                        | mg/kg                  | 4        | 4070937          | AC      | 09-Jul-24 | 4500-Cl-B                   |       |
| Volatile Organic Compounds                            |         | 021 | 1010                        | 5 5                    |          |                  |         |           |                             |       |
| Benzene*  | < 0.050 |     | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Toluene*  | < 0.050 |     | 0.050                       | mg/kg                  | 50       | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Ethylbenzene*   | < 0.050 |     | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total Xylenes*  | < 0.150 |     | 0.150                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total BTEX  | < 0.300 |     | 0.300                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Surrogate: 4-Bromofluorobenzene (Pl                   | D)      |     | 101 %                       | 71.5                   | -134     | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Petroleum Hydrocarbons by                             | GC FID  |     |                             |                        |          |                  |         |           |                             |       |
| GRO C6-C10*   | <10.0   |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| DRO >C10-C28*   | <10.0   |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| EXT DRO >C28-C36                                      | <10.0   |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctane                             |         |     | 81.5 %                      | 48.2                   | -134     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctadecane                         |         |     | 82.8 %                      | 49.1                   | -148     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                    |     | Project Num<br>Project Mana | ber: 202<br>ger: ANE   |          | rchison -<br>Ker | RIOSTAT |           | Reported:<br>11-Jul-24 17:0 | )1    |
|---|--------------------|-----|-----------------------------|------------------------|----------|------------------|---------|-----------|-----------------------------|-------|
|   |                    |     |                             | - 03 2-4<br>)17-06 (So | -        |                  |         |           |                             |       |
| Analyte   | Result             | MDL | Reporting<br>Limit          | Units                  | Dilution | Batch            | Analyst | Analyzed  | Method                      | Notes |
|   |                    |     | Cardina                     | l Laborat              | tories   |                  |         |           |                             |       |
| <u>Inorganic Compounds</u><br>Chloride                | 448                |     | 16.0                        | mg/kg                  | 4        | 4070930          | СТ      | 09-Jul-24 | 4500-Cl-B                   | QM-07 |
| Volatile Organic Compounds                            | s by EPA Method 80 | )21 |                             |                        |          |                  |         |           |                             |       |
| Benzene*  | < 0.050            |     | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Toluene*  | < 0.050            |     | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Ethylbenzene*   | < 0.050            |     | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total Xylenes*  | < 0.150            |     | 0.150                       | mg/kg                  | 50       | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Total BTEX  | < 0.300            |     | 0.300                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Surrogate: 4-Bromofluorobenzene (Pl                   | D)                 |     | 101 %                       | 71.5                   | -134     | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Petroleum Hydrocarbons by                             | GC FID             |     |                             |                        |          |                  |         |           |                             |       |
| GRO C6-C10*   | <10.0              |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| DRO >C10-C28*   | <10.0              |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| EXT DRO >C28-C36                                      | <10.0              |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctane                             |                    |     | 88.4 %                      | 48.2                   | -134     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctadecane                         |                    |     | 93.3 %                      | 49.1                   | -148     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                 |      | Project Num<br>Project Mana | ber: 202<br>ger: ANI   |          | rchison -<br>Ker | RIOSTAT |           | Reported:<br>11-Jul-24 17:0 | )1    |
|---|-----------------|------|-----------------------------|------------------------|----------|------------------|---------|-----------|-----------------------------|-------|
|   |                 |      |                             | - 04 0-2<br>017-07 (Se | -        |                  |         |           |                             |       |
| Analyte   | Result          | MDL  | Reporting<br>Limit          | Units                  | Dilution | Batch            | Analyst | Analyzed  | Method                      | Notes |
|   |                 |      | Cardina                     | l Laborat              | tories   |                  |         |           |                             |       |
| <u>Inorganic Compounds</u><br>Chloride                | 160             |      | 16.0                        | mg/kg                  | 4        | 4070930          | CT      | 09-Jul-24 | 4500-Cl-B                   |       |
| Volatile Organic Compounds                            | by EPA Method 8 | 8021 |                             |                        |          |                  |         |           |                             |       |
| Benzene*  | < 0.050         |      | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Toluene*  | < 0.050         |      | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Ethylbenzene*   | < 0.050         |      | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total Xylenes*  | < 0.150         |      | 0.150                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total BTEX  | < 0.300         |      | 0.300                       | mg/kg                  | 50       | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Surrogate: 4-Bromofluorobenzene (PID                  | ))              |      | 100 %                       | 71.5                   | -134     | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Petroleum Hydrocarbons by (                           | GC FID          |      |                             |                        |          |                  |         |           |                             |       |
| GRO C6-C10*   | <10.0           |      | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| DRO >C10-C28*   | <10.0           |      | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| EXT DRO >C28-C36                                      | <10.0           |      | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctane                             |                 |      | 89.2 %                      | 48.2                   | -134     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctadecane                         |                 |      | 91.9 %                      | 49.1                   | -148     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                 |      | Project Num<br>Project Mana<br>Fax | ber: 202<br>ger: ANE | DREW PARH<br>5) 391-848 | rchison -<br>Ker | RIOSTAT |           | Reported:<br>11-Jul-24 17:01 |       |
|---|-----------------|------|------------------------------------|----------------------|-------------------------|------------------|---------|-----------|------------------------------|-------|
|   |                 |      | H2440                              | )17-08 (Se           | oil)                    |                  |         |           |                              |       |
| Analyte   | Result          | MDL  | Reporting<br>Limit                 | Units                | Dilution                | Batch            | Analyst | Analyzed  | Method                       | Notes |
|   |                 |      | Cardina                            | l Laborat            | tories                  |                  |         |           |                              |       |
| Inorganic Compounds                                   |                 |      |                                    |                      |                         |                  |         |           |                              |       |
| Chloride  | 64.0            |      | 16.0                               | mg/kg                | 4                       | 4070930          | СТ      | 09-Jul-24 | 4500-Cl-B                    |       |
| Volatile Organic Compounds                            | by EPA Method 8 | 8021 |                                    |                      |                         |                  |         |           |                              |       |
| Benzene*  | < 0.050         |      | 0.050                              | mg/kg                | 50                      | 4070905          | JH      | 10-Jul-24 | 8021B                        |       |
| Toluene*  | < 0.050         |      | 0.050                              | mg/kg                | 50                      | 4070905          | ЛН      | 10-Jul-24 | 8021B                        |       |
| Ethylbenzene*   | < 0.050         |      | 0.050                              | mg/kg                | 50                      | 4070905          | ЛН      | 10-Jul-24 | 8021B                        |       |
| Total Xylenes*  | < 0.150         |      | 0.150                              | mg/kg                | 50                      | 4070905          | ЛН      | 10-Jul-24 | 8021B                        |       |
| Total BTEX  | < 0.300         |      | 0.300                              | mg/kg                | 50                      | 4070905          | ЛН      | 10-Jul-24 | 8021B                        |       |
| Surrogate: 4-Bromofluorobenzene (PID)                 | )               |      | 100 %                              | 71.5                 | -134                    | 4070905          | ЛН      | 10-Jul-24 | 8021B                        |       |
| Petroleum Hydrocarbons by G                           | GC FID          |      |                                    |                      |                         |                  |         |           |                              |       |
| GRO C6-C10*   | <10.0           |      | 10.0                               | mg/kg                | 1                       | 4070807          | MS      | 09-Jul-24 | 8015B                        |       |
| DRO >C10-C28*   | <10.0           |      | 10.0                               | mg/kg                | 1                       | 4070807          | MS      | 09-Jul-24 | 8015B                        |       |
| EXT DRO >C28-C36                                      | <10.0           |      | 10.0                               | mg/kg                | 1                       | 4070807          | MS      | 09-Jul-24 | 8015B                        |       |
| Surrogate: 1-Chlorooctane                             |                 |      | 91.0 %                             | 48.2                 | -134                    | 4070807          | MS      | 09-Jul-24 | 8015B                        |       |
| Surrogate: 1-Chlorooctadecane                         |                 |      | 96.0 %                             | 49.1                 | -148                    | 4070807          | MS      | 09-Jul-24 | 8015B                        |       |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Page 60 of 235

### Analytical Results For:

| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |               |      | Project Num<br>Project Mana | ber: 202<br>ger: ANI   |          | rchison -<br>Ker | RIOSTAT |           | Reported:<br>11-Jul-24 17:C | )1    |
|---|---------------|------|-----------------------------|------------------------|----------|------------------|---------|-----------|-----------------------------|-------|
|   |               |      |                             | - 05 0-2<br>)17-09 (Se |          |                  |         |           |                             |       |
| Analyte   | Result        | MDL  | Reporting<br>Limit          | Units                  | Dilution | Batch            | Analyst | Analyzed  | Method                      | Notes |
|   |               |      | Cardina                     | l Laborat              | tories   |                  |         |           |                             |       |
| <u>Inorganic Compounds</u><br>Chloride                | 48.0          |      | 16.0                        | mg/kg                  | 4        | 4070930          | СТ      | 09-Jul-24 | 4500-Cl-B                   |       |
| Volatile Organic Compounds                            | by EPA Method | 8021 |                             |                        |          |                  |         |           |                             |       |
| Benzene*  | < 0.050       |      | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Toluene*  | < 0.050       |      | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Ethylbenzene*   | < 0.050       |      | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total Xylenes*  | < 0.150       |      | 0.150                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total BTEX  | < 0.300       |      | 0.300                       | mg/kg                  | 50       | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Surrogate: 4-Bromofluorobenzene (PID                  | ))            |      | 99.9 %                      | 71.5                   | -134     | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Petroleum Hydrocarbons by (                           | GC FID        |      |                             |                        |          |                  |         |           |                             |       |
| GRO C6-C10*   | <10.0         |      | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| DRO >C10-C28*   | <10.0         |      | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| EXT DRO >C28-C36                                      | <10.0         |      | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctane                             |               |      | 95.5 %                      | 48.2                   | -134     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctadecane                         |               |      | 99.6 %                      | 49.1                   | -148     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Page 61 of 235

### Analytical Results For:

| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                 |      | Project Num<br>Project Mana<br>Fax<br>WS | ber: 202<br>ger: ANE | DREW PARH<br>5) 391-848 | rchison -<br>Ker | RIOSTAT |           | Reported:<br>11-Jul-24 17:0 | 1     |
|---|-----------------|------|--|----------------------|-------------------------|------------------|---------|-----------|-----------------------------|-------|
| Analyte   | Result          | MDL  | Reporting<br>Limit                       | Units                | Dilution                | Batch            | Analyst | Analyzed  | Method                      | Notes |
|   |                 |      | Cardina                                  | l Laborat            | tories                  |                  |         |           |                             |       |
| <u>Inorganic Compounds</u><br>Chloride                | 48.0            |      | 16.0                                     | mg/kg                | 4                       | 4070930          | CT      | 09-Jul-24 | 4500-Cl-B                   |       |
| Volatile Organic Compounds                            | by EPA Method 8 | 8021 |  |                      |                         |                  |         |           |                             |       |
| Benzene*  | < 0.050         |      | 0.050                                    | mg/kg                | 50                      | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Toluene*  | < 0.050         |      | 0.050                                    | mg/kg                | 50                      | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Ethylbenzene*   | < 0.050         |      | 0.050                                    | mg/kg                | 50                      | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Total Xylenes*  | < 0.150         |      | 0.150                                    | mg/kg                | 50                      | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Total BTEX  | < 0.300         |      | 0.300                                    | mg/kg                | 50                      | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Surrogate: 4-Bromofluorobenzene (PID)                 | )               |      | 102 %                                    | 71.5                 | -134                    | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Petroleum Hydrocarbons by C                           | GC FID          |      |  |                      |                         |                  |         |           |                             |       |
| GRO C6-C10*   | <10.0           |      | 10.0                                     | mg/kg                | 1                       | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| DRO >C10-C28*   | <10.0           |      | 10.0                                     | mg/kg                | 1                       | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| EXT DRO >C28-C36                                      | <10.0           |      | 10.0                                     | mg/kg                | 1                       | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctane                             |                 |      | 82.6 %                                   | 48.2                 | -134                    | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctadecane                         |                 |      | 88.1 %                                   | 49.1                 | -148                    | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Page 62 of 235

### Analytical Results For:

| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |                   |     | Project Num<br>Project Mana | ber: 202<br>ger: ANE |          | rchison -<br>Ker | RIOSTAT |           | Reported:<br>11-Jul-24 17:( | )1    |
|---|-------------------|-----|-----------------------------|----------------------|----------|------------------|---------|-----------|-----------------------------|-------|
|   |                   |     |                             | - 06 0-2             |          |                  |         |           |                             |       |
|   |                   |     | H244                        | 017-11 (Se           | oil)     |                  |         |           |                             |       |
| Analyte   | Result            | MDL | Reporting<br>Limit          | Units                | Dilution | Batch            | Analyst | Analyzed  | Method                      | Notes |
|   |                   |     | Cardina                     | l Laborat            | ories    |                  |         |           |                             |       |
| Inorganic Compounds                                   |                   |     |                             |                      |          |                  |         |           |                             |       |
| Chloride  | 64.0              |     | 16.0                        | mg/kg                | 4        | 4070930          | CT      | 09-Jul-24 | 4500-Cl-B                   |       |
| Volatile Organic Compound                             | s by EPA Method 8 | 021 |                             |                      |          |                  |         |           |                             |       |
| Benzene*  | < 0.050           |     | 0.050                       | mg/kg                | 50       | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Toluene*  | < 0.050           |     | 0.050                       | mg/kg                | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Ethylbenzene*   | < 0.050           |     | 0.050                       | mg/kg                | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total Xylenes*  | < 0.150           |     | 0.150                       | mg/kg                | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total BTEX  | < 0.300           |     | 0.300                       | mg/kg                | 50       | 4070905          | ЈН      | 10-Jul-24 | 8021B                       |       |
| Surrogate: 4-Bromofluorobenzene (P                    | PID)              |     | 104 %                       | 71.5                 | -134     | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Petroleum Hydrocarbons by                             | GC FID            |     |                             |                      |          |                  |         |           |                             |       |
| GRO C6-C10*   | <10.0             |     | 10.0                        | mg/kg                | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| DRO >C10-C28*   | 24.4              |     | 10.0                        | mg/kg                | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| EXT DRO >C28-C36                                      | <10.0             |     | 10.0                        | mg/kg                | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctane                             |                   |     | 74.7 %                      | 48.2                 | -134     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctadecane                         |                   |     | 77.7 %                      | 49.1                 | -148     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Page 63 of 235

### Analytical Results For:

| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 |         |     | Project Num<br>Project Mana | ber: 202<br>ger: ANE   |          | rchison -<br>Ker | RIOSTAT |           | Reported:<br>11-Jul-24 17:C | )1    |
|---|---------|-----|-----------------------------|------------------------|----------|------------------|---------|-----------|-----------------------------|-------|
|   |         |     |                             | - 06 2-4<br>)17-12 (Se | -        |                  |         |           |                             |       |
| Analyte   | Result  | MDL | Reporting<br>Limit          | Units                  | Dilution | Batch            | Analyst | Analyzed  | Method                      | Notes |
|   |         |     | Cardina                     | l Laborat              | tories   |                  |         |           |                             |       |
| Inorganic Compounds                                   | 160     |     | 16.0                        | mg/kg                  | 4        | 4070930          | СТ      | 09-Jul-24 | 4500-Cl-B                   |       |
| Chloride  |         |     | 16.0                        | mg/kg                  | 4        | 4070930          | CI      | 09-Jul-24 | 4300-СІ-В                   |       |
| Volatile Organic Compounds                            |         | 021 |                             |                        |          |                  |         |           |                             |       |
| Benzene*  | < 0.050 |     | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Toluene*  | < 0.050 |     | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Ethylbenzene*   | < 0.050 |     | 0.050                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total Xylenes*  | < 0.150 |     | 0.150                       | mg/kg                  | 50       | 4070905          | JH      | 10-Jul-24 | 8021B                       |       |
| Total BTEX  | < 0.300 |     | 0.300                       | mg/kg                  | 50       | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Surrogate: 4-Bromofluorobenzene (Pl                   | D)      |     | 101 %                       | 71.5                   | -134     | 4070905          | ЛН      | 10-Jul-24 | 8021B                       |       |
| Petroleum Hydrocarbons by                             | GC FID  |     |                             |                        |          |                  |         |           |                             |       |
| GRO C6-C10*   | <10.0   |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| DRO >C10-C28*   | <10.0   |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| EXT DRO >C28-C36                                      | <10.0   |     | 10.0                        | mg/kg                  | 1        | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctane                             |         |     | 95.1 %                      | 48.2                   | -134     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |
| Surrogate: 1-Chlorooctadecane                         |         |     | 100 %                       | 49.1                   | -148     | 4070807          | MS      | 09-Jul-24 | 8015B                       |       |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 | Project: RIO STATE #3<br>Project Number: 20220103-MURCHISON - RIOSTA<br>Project Manager: ANDREW PARKER<br>Fax To: (575) 391-8484 | Reported:<br>11-Jul-24 17:01 |
|---|--|------------------------------|
|---|--|------------------------------|

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

|                              |        | Reporting |       | Spike      | Source      |           | %REC   |      | RPD   |       |
|------------------------------|--------|-----------|-------|------------|-------------|-----------|--------|------|-------|-------|
| Analyte                      | Result | Limit     | Units | Level      | Result      | %REC      | Limits | RPD  | Limit | Notes |
| Batch 4070930 - 1:4 DI Water |        |           |       |            |             |           |        |      |       |       |
| Blank (4070930-BLK1)         |        |           |       | Prepared & | Analyzed:   | 09-Jul-24 |        |      |       |       |
| Chloride                     | ND     | 16.0      | mg/kg |            |             |           |        |      |       |       |
| LCS (4070930-BS1)            |        |           |       | Prepared & | z Analyzed: | 09-Jul-24 |        |      |       |       |
| Chloride                     | 432    | 16.0      | mg/kg | 400        |             | 108       | 80-120 |      |       |       |
| LCS Dup (4070930-BSD1)       |        |           |       | Prepared & | Analyzed:   | 09-Jul-24 |        |      |       |       |
| Chloride                     | 432    | 16.0      | mg/kg | 400        |             | 108       | 80-120 | 0.00 | 20    |       |
| Batch 4070937 - 1:4 DI Water |        |           |       |            |             |           |        |      |       |       |
| Blank (4070937-BLK1)         |        |           |       | Prepared & | Analyzed:   | 09-Jul-24 |        |      |       |       |
| Chloride                     | ND     | 16.0      | mg/kg |            |             |           |        |      |       |       |
| LCS (4070937-BS1)            |        |           |       | Prepared & | Analyzed:   | 09-Jul-24 |        |      |       |       |
| Chloride                     | 416    | 16.0      | mg/kg | 400        |             | 104       | 80-120 |      |       |       |
| LCS Dup (4070937-BSD1)       |        |           |       | Prepared & | Analyzed:   | 09-Jul-24 |        |      |       |       |
| Chloride                     | 448    | 16.0      | mg/kg | 400        |             | 112       | 80-120 | 7.41 | 20    |       |
|                              |        |           |       |            |             |           |        |      |       |       |

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 | Project Number:<br>Project Manager: | RIO STATE #3<br>20220103-MURCHISON - RIOSTAT<br>ANDREW PARKER<br>(575) 391-8484 | Reported:<br>11-Jul-24 17:01 |  |
|---|-------------------------------------|---|------------------------------|--|
|---|-------------------------------------|---|------------------------------|--|

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

| Analyte                               | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC      | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|---------------------------------------|--------|--------------------|-------|----------------|------------------|-----------|----------------|------|--------------|-------|
| Batch 4070904 - Volatiles             |        |                    |       |                |                  |           |                |      |              |       |
| Blank (4070904-BLK1)                  |        |                    |       | Prepared &     | Analyzed:        | 09-Jul-24 |                |      |              |       |
| Benzene                               | ND     | 0.050              | mg/kg |                |                  |           |                |      |              |       |
| Toluene                               | ND     | 0.050              | mg/kg |                |                  |           |                |      |              |       |
| Ethylbenzene                          | ND     | 0.050              | mg/kg |                |                  |           |                |      |              |       |
| Total Xylenes                         | ND     | 0.150              | mg/kg |                |                  |           |                |      |              |       |
| Total BTEX                            | ND     | 0.300              | mg/kg |                |                  |           |                |      |              |       |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0517 |                    | mg/kg | 0.0500         |                  | 103       | 71.5-134       |      |              |       |
| LCS (4070904-BS1)                     |        |                    |       | Prepared &     | Analyzed:        | 09-Jul-24 |                |      |              |       |
| Benzene                               | 1.92   | 0.050              | mg/kg | 2.00           |                  | 96.2      | 82.8-130       |      |              |       |
| Toluene                               | 1.95   | 0.050              | mg/kg | 2.00           |                  | 97.6      | 86-128         |      |              |       |
| Ethylbenzene                          | 1.97   | 0.050              | mg/kg | 2.00           |                  | 98.6      | 85.9-128       |      |              |       |
| m,p-Xylene                            | 3.87   | 0.100              | mg/kg | 4.00           |                  | 96.7      | 89-129         |      |              |       |
| p-Xylene                              | 1.94   | 0.050              | mg/kg | 2.00           |                  | 96.9      | 86.1-125       |      |              |       |
| Total Xylenes                         | 5.81   | 0.150              | mg/kg | 6.00           |                  | 96.8      | 88.2-128       |      |              |       |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0494 |                    | mg/kg | 0.0500         |                  | 98.9      | 71.5-134       |      |              |       |
| LCS Dup (4070904-BSD1)                |        |                    |       | Prepared &     | Analyzed:        | 09-Jul-24 |                |      |              |       |
| Benzene                               | 2.04   | 0.050              | mg/kg | 2.00           |                  | 102       | 82.8-130       | 6.01 | 15.8         |       |
| Toluene                               | 2.01   | 0.050              | mg/kg | 2.00           |                  | 101       | 86-128         | 3.03 | 15.9         |       |
| Ethylbenzene                          | 2.03   | 0.050              | mg/kg | 2.00           |                  | 102       | 85.9-128       | 3.11 | 16           |       |
| m,p-Xylene                            | 3.97   | 0.100              | mg/kg | 4.00           |                  | 99.2      | 89-129         | 2.47 | 16.2         |       |
| p-Xylene                              | 1.99   | 0.050              | mg/kg | 2.00           |                  | 99.4      | 86.1-125       | 2.51 | 16.7         |       |
| Total Xylenes                         | 5.95   | 0.150              | mg/kg | 6.00           |                  | 99.2      | 88.2-128       | 2.48 | 16.3         |       |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0489 |                    | mg/kg | 0.0500         |                  | 97.7      | 71.5-134       |      |              |       |

### Batch 4070905 - Volatiles

| Blank (4070905-BLK1) |    |       | Prepared & Analyzed: 09-Jul-24 |
|----------------------|----|-------|--------------------------------|
| Benzene              | ND | 0.050 | mg/kg                          |
| Toluene              | ND | 0.050 | mg/kg                          |
| Ethylbenzene         | ND | 0.050 | mg/kg                          |
| Total Xylenes        | ND | 0.150 | mg/kg                          |
|                      |    |       |                                |

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 | Project: RIO STATE #3<br>Project Number: 20220103-MURCHISON - RIOSTAT<br>Project Manager: ANDREW PARKER<br>Fax To: (575) 391-8484 | Reported:<br>11-Jul-24 17:01 |
|---|---|------------------------------|
|---|---|------------------------------|

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

|                                       | D. I.  | Reporting | <b>T</b> T <b>1</b> | Spike      | Source    | WREG      | %REC     | 000  | RPD   | <b>N</b> T . |
|---------------------------------------|--------|-----------|---------------------|------------|-----------|-----------|----------|------|-------|--------------|
| Analyte                               | Result | Limit     | Units               | Level      | Result    | %REC      | Limits   | RPD  | Limit | Notes        |
| Batch 4070905 - Volatiles             |        |           |                     |            |           |           |          |      |       |              |
| Blank (4070905-BLK1)                  |        |           |                     | Prepared & | Analyzed: | 09-Jul-24 |          |      |       |              |
| Total BTEX                            | ND     | 0.300     | mg/kg               |            |           |           |          |      |       |              |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0504 |           | mg/kg               | 0.0500     |           | 101       | 71.5-134 |      |       |              |
| LCS (4070905-BS1)                     |        |           |                     | Prepared & | Analyzed: | 09-Jul-24 |          |      |       |              |
| Benzene                               | 2.01   | 0.050     | mg/kg               | 2.00       |           | 101       | 82.8-130 |      |       |              |
| Toluene                               | 2.00   | 0.050     | mg/kg               | 2.00       |           | 99.8      | 86-128   |      |       |              |
| Ethylbenzene                          | 2.03   | 0.050     | mg/kg               | 2.00       |           | 102       | 85.9-128 |      |       |              |
| m,p-Xylene                            | 4.01   | 0.100     | mg/kg               | 4.00       |           | 100       | 89-129   |      |       |              |
| o-Xylene                              | 1.99   | 0.050     | mg/kg               | 2.00       |           | 99.4      | 86.1-125 |      |       |              |
| Total Xylenes                         | 6.00   | 0.150     | mg/kg               | 6.00       |           | 100       | 88.2-128 |      |       |              |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0509 |           | mg/kg               | 0.0500     |           | 102       | 71.5-134 |      |       |              |
| LCS Dup (4070905-BSD1)                |        |           |                     | Prepared & | Analyzed: | 09-Jul-24 |          |      |       |              |
| Benzene                               | 1.98   | 0.050     | mg/kg               | 2.00       |           | 98.9      | 82.8-130 | 1.84 | 15.8  |              |
| Toluene                               | 1.95   | 0.050     | mg/kg               | 2.00       |           | 97.7      | 86-128   | 2.09 | 15.9  |              |
| Ethylbenzene                          | 1.99   | 0.050     | mg/kg               | 2.00       |           | 99.5      | 85.9-128 | 2.11 | 16    |              |
| m,p-Xylene                            | 3.93   | 0.100     | mg/kg               | 4.00       |           | 98.1      | 89-129   | 2.13 | 16.2  |              |
| o-Xylene                              | 1.95   | 0.050     | mg/kg               | 2.00       |           | 97.7      | 86.1-125 | 1.75 | 16.7  |              |
| Total Xylenes                         | 5.88   | 0.150     | mg/kg               | 6.00       |           | 98.0      | 88.2-128 | 2.00 | 16.3  |              |
| Surrogate: 4-Bromofluorobenzene (PID) | 0.0502 |           | mg/kg               | 0.0500     |           | 100       | 71.5-134 |      |       |              |
|                                       |        |           |                     |            |           |           |          |      |       |              |

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



| MC NABB SERVICES<br>P. O. BOX 5753<br>HOBBS NM, 88240 | Project: RIO STATE #3<br>Project Number: 20220103-MURCHISON - RIOSTAT<br>Project Manager: ANDREW PARKER<br>Fax To: (575) 391-8484 | Reported:<br>11-Jul-24 17:01 |
|---|---|------------------------------|
|---|---|------------------------------|

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

|   |        | Reporting |       | Spike       | Source      |             | %REC     |       | RPD   |       |
|---|--------|-----------|-------|-------------|-------------|-------------|----------|-------|-------|-------|
| Analyte                                 | Result | Limit     | Units | Level       | Result      | %REC        | Limits   | RPD   | Limit | Notes |
| Batch 4070807 - General Prep - Organics |        |           |       |             |             |             |          |       |       |       |
| Blank (4070807-BLK1)                    |        |           |       | Prepared: ( | 98-Jul-24 A | nalyzed: 09 | Jul-24   |       |       |       |
| GRO C6-C10                              | ND     | 10.0      | mg/kg |             |             |             |          |       |       |       |
| DRO >C10-C28                            | ND     | 10.0      | mg/kg |             |             |             |          |       |       |       |
| EXT DRO >C28-C36                        | ND     | 10.0      | mg/kg |             |             |             |          |       |       |       |
| Surrogate: 1-Chlorooctane               | 58.4   |           | mg/kg | 50.0        |             | 117         | 48.2-134 |       |       |       |
| Surrogate: 1-Chlorooctadecane           | 65.0   |           | mg/kg | 50.0        |             | 130         | 49.1-148 |       |       |       |
| LCS (4070807-BS1)                       |        |           |       | Prepared: ( | 8-Jul-24 A  | nalyzed: 10 | )-Jul-24 |       |       |       |
| GRO C6-C10                              | 102    | 10.0      | mg/kg | 100         |             | 102         | 66.4-123 |       |       |       |
| DRO >C10-C28                            | 101    | 10.0      | mg/kg | 100         |             | 101         | 66.5-118 |       |       |       |
| Total TPH C6-C28                        | 203    | 10.0      | mg/kg | 200         |             | 101         | 77.6-123 |       |       |       |
| Surrogate: 1-Chlorooctane               | 49.6   |           | mg/kg | 50.0        |             | <i>99.3</i> | 48.2-134 |       |       |       |
| Surrogate: 1-Chlorooctadecane           | 53.0   |           | mg/kg | 50.0        |             | 106         | 49.1-148 |       |       |       |
| LCS Dup (4070807-BSD1)                  |        |           |       | Prepared: ( | 8-Jul-24 A  | nalyzed: 09 | Jul-24   |       |       |       |
| GRO C6-C10                              | 99.6   | 10.0      | mg/kg | 100         |             | 99.6        | 66.4-123 | 2.67  | 17.7  |       |
| DRO >C10-C28                            | 102    | 10.0      | mg/kg | 100         |             | 102         | 66.5-118 | 1.00  | 21    |       |
| Total TPH C6-C28                        | 201    | 10.0      | mg/kg | 200         |             | 101         | 77.6-123 | 0.831 | 18.5  |       |
| Surrogate: 1-Chlorooctane               | 62.1   |           | mg/kg | 50.0        |             | 124         | 48.2-134 |       |       |       |
| Surrogate: 1-Chlorooctadecane           | 70.2   |           | mg/kg | 50.0        |             | 140         | 49.1-148 |       |       |       |

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey 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

### 101 East Marland, Hobbs, NM 88240 J oratories

Company Name: Mc Nouve Par Trues

(575) 393-2326 FAX (575) 393-2476

BILL

10

ANALYSIS

REQUEST

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

City: Project Location: Rio State 3 Project Name: 20220103-Murchison-Rio State3 Project Manager: Relinquished By Relinquished 5y Sampler Name: Project #: Phone #: Address HA4401' Sampler - UPS - Bus - Other: FOR LAB USE ONLY Delivered By: (Circle One) Lab I.D. ice. In no event shall All claims S f W 000 82-04 MS-04 MS-04 55-06 On-File NS-03 £0-59 WS-05 mr 15 top mr Andrew Parker Sample I.D Corrected Temp. Observed Temp. °C Inner Fax #: Project Owner TIMESIS Date: 7.3.24 State: Time: Date 6-2Ft 6-2F+ 2-4F+ 2-4Ft 2-4FF キャキ 4Ft Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com റ് 36 Zip (G)RAB OR (C)OMP Received By: Received # CONTAINERS GROUNDWATER WASTEWATER Yes Yes No No MATRIX × SOIL Condition OIL SLUDGE State: P.O. #:20220103-murchison OTHER Fax #: City: Company McNaby Partners Phone #: Address: Attn: andrew Prunnels Partner (. Low ACID/BASE PRESERV CHECKED BY: ICE / COOL (Initials) OTHER Zip 07/24/24 SAMPLING 1420 14:43 14:24 Turnaround Time: REMARKS: \* Customer Juqueted All Results are emailed. Please provide Email address Verbal Result: 3.7 RioSkele 4:5 TIME mometer ID #140 ection Factor 0°C 0 844 10 Chloride TPH (GRO+DRO+MRO) □ Yes X 4 BTEX (Benzene) Standard R λ **NUS** ON D Add'I Phone #: Cool Intact Bacteria (only) Sample Condition f Corrected Temp. °C Observed Temp. 711124 Dere റ് char So

Received by OCD: 9/26/2024 12:55:51 PM

Page 20 of 21

### Received by OCD: 9/26/2024 12:55:51 PM

City: Phone #: Relinquished By: Relingen Project Name: Project #: Project Manager: Company Name: Sampler - UPS - Bus - Other: ATHOL, Sampler Name: Project Location: Address: Delivered By: (Circle One) EASE NOTE: Lin FOR LAB USE ONLY Lab I.D Din 2 WS-06 20220/03-Murchison-Rie States -File 101 East Marland, Hobbs, NM 88240 Christopher Andrew Parker Mc Naton Portners (575) 393-2326 FAX (575) 393-2476 Rib State 3 Sample I.D Corrected Temp Observed Temp. °C Urner Project Owne Fax #: Time: State: Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com 2-4FA 0-2F റ Q 0 GIRAB OR (C)OMP Zip Received By Received 6 # CONTAINERS GROUNDWATER Cool muse WASTEWATER MATRIX × SOIL Intact Condition OIL Yes No SLUDGE OTHER State: City: P.O. #: 20220103-Murchister-Kiester Fax #: Phone #: Address: Attn: Marena horna lopantur.com Company: Mc No. 60 Partilly ACID/BASE PRESERV CHECKED BY AICE / COOL (Initials) BILL OTHER 01/24 15:02 Zip DOR 10 SAMPLING **Furnaround Time:** REMARKS: All Results are emailed. Please provide Email address TIME erbal Result: rmometer ID #140 rection Factor 0°C Sent for the on of the applicable hloride x X TPH ( GRO+DRO+MRO) BTEX (Benzene) D Yes changes λ A US toner -Standard × x ON D Add'l Phone #: ANALYSIS Tes. Bacteria (only) Sample Condition Cool Intact Observed Temr Ves Yes . ·C REQUEST 7/11/24 Observed Temp. °C Corrected Temp. °C Jach

aboratories

ARDIN

Page 21 of 21

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 9/30/2024 10:20:23 AM



July 11, 2024

ANDREW PARKER

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: RIO STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 07/08/24 13:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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



Alyssa Parras

Sample Received By:

### Analytical Results For:

MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 07/08/2024 Sampling Date: 07/08/2024 07/11/2024 Sampling Type: Soil Project Name: RIO STATE #3 Sampling Condition: Cool & Intact

20220103-MURCHISON - RIOSTATE3

EDDY CO., NM

### Sample ID: BS-01 6FT (H244041-01)

Received:

Reported:

Project Number:

Project Location:

| BTEX 8021B                           | mg/    | ′kg             | Analyze    | d By: JH     |      |            |               |       |          |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifie |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024 | ND           | 1.98 | 98.9       | 2.00          | 0.839 |          |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024 | ND           | 2.18 | 109        | 2.00          | 0.774 |          |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024 | ND           | 2.23 | 111        | 2.00          | 0.885 |          |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024 | ND           | 6.89 | 115        | 6.00          | 0.820 |          |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024 | ND           |      |            |               |       |          |
| Surrogate: 4-Bromofluorobenzene (PID | 124    | % 71.5-13       | 4          |              |      |            |               |       |          |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: AC     |      |            |               |       |          |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifie |
| Chloride                             | 80.0   | 16.0            | 07/10/2024 | ND           | 416  | 104        | 400           | 0.00  |          |
| TPH 8015M                            | mg/    | ′kg             | Analyze    | d By: MS     |      |            |               |       |          |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifie |
| GRO C6-C10*                          | 21.3   | 10.0            | 07/10/2024 | ND           | 186  | 93.2       | 200           | 1.26  |          |
| DRO >C10-C28*                        | 310    | 10.0            | 07/10/2024 | ND           | 180  | 90.2       | 200           | 2.45  |          |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024 | ND           |      |            |               |       |          |
| Surrogate: 1-Chlorooctane            | 103    | % 48.2-13       | 4          |              |      |            |               |       |          |
| Surrogate: 1-Chlorooctadecane        | 96.9   | % 49.1-14       |            |              |      |            |               |       |          |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras Project Location: EDDY CO., NM

#### Sample ID: WS -01 0-2FT (H244041-02)

| BTEX 8021B                           | mg/    | /kg             | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 32.0   | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | /kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 96.1   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 89.3   | % 49.1-14       | 8               |              |      |            |               |       |           |

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#### \*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras Project Location: EDDY CO., NM

#### Sample ID: WS -01 2-4FT (H244041-03)

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg,    | ′kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 304    | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze         | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 85.0   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 78.7   | % 49.1-14       | 8               |              |      |            |               |       |           |

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\*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



Alyssa Parras

Sample Received By:

#### Analytical Results For:

MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 07/08/2024 Sampling Date: 07/08/2024 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact

20220103-MURCHISON - RIOSTATE3

EDDY CO., NM

#### Sample ID: WS -01 6FT (H244041-04)

Received:

Reported:

Project Number:

Project Location:

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | 'kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 144    | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | kg              | Analyze         | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 78.2   | % 48.2-13       | 4               |              |      |            |               |       |           |
|                                      |        |                 |                 |              |      |            |               |       |           |

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras Project Location: EDDY CO., NM

#### Sample ID: WS -02 0-2FT (H244041-05)

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 176    | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | 17.7   | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 99.8   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 98.6   | % 49.1-14       | 8               |              |      |            |               |       |           |

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#### \*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras Project Location: EDDY CO., NM

#### Sample ID: WS -02 2-4FT (H244041-06)

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifie  |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 80.0   | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 116 9  | 48.2-13         | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 108 9  | % 49.1-14       | 8               |              |      |            |               |       |           |

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



EDDY CO., NM

#### Analytical Results For:

MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras

#### Sample ID: WS -02 6FT (H244041-07)

Project Location:

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifie  |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 111 %  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | 'kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 48.0   | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | kg              | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 102 9  | 48.2-13         | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 96.8   | % 49.1-14       | 8               |              |      |            |               |       |           |

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras

#### Sample ID: WS -07 0-2FT (H244041-08)

EDDY CO., NM

Project Location:

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 111 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyzed By: CT |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 16.0   | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 85.9   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 79.6   | % 49.1-14       | 8               |              |      |            |               |       |           |

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#### \*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras Project Location: EDDY CO., NM

#### Sample ID: WS -07 2-4FT (H244041-09)

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 111 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyzed By: CT |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 128    | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                            | mg/    | /kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 99.7   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 92.1   | % 49.1-14       | 8               |              |      |            |               |       |           |

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\*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



Alyssa Parras

Sample Received By:

#### Analytical Results For:

20220103-MURCHISON - RIOSTATE3

EDDY CO., NM

MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 07/08/2024 07/11/2024 RIO STATE #3 Sampling Condition: Cool & Intact

#### Sample ID: WS -07 6FT (H244041-10)

Received:

Reported:

Project Name:

Project Number:

Project Location:

| BTEX 8021B                           | mg/    | kg              | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifie  |
| Benzene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/10/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/10/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/10/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 111 %  | 6 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | kg              | Analyzed By: CT |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 96.0   | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                            | mg/    | kg              | Analyze         | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 88.1 9 | 48.2-13         | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 81.0 9 | % 49.1-14       | 0               |              |      |            |               |       |           |

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Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras Project Location: EDDY CO., NM

#### Sample ID: WS -10 0-2FT (H244041-11)

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/11/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/11/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/11/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/11/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/11/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 109    | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyzed By: CT |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 32.0   | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                            | mg,    | /kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 83.5   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 78.2   | % 49.1-14       | 8               |              |      |            |               |       |           |

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\*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES ANDREW PARKER P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484 Received: 07/08/2024 Sampling Date: 07/08/2024 Reported: 07/11/2024 Sampling Type: Soil Project Name: **RIO STATE #3** Sampling Condition: Cool & Intact Project Number: 20220103-MURCHISON - RIOSTATE3 Sample Received By: Alyssa Parras Project Location: EDDY CO., NM

#### Sample ID: WS -10 2-4FT (H244041-12)

| BTEX 8021B                           | mg/kg  |                 | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 07/11/2024      | ND           | 1.98 | 98.9       | 2.00          | 0.839 |           |
| Toluene*                             | <0.050 | 0.050           | 07/11/2024      | ND           | 2.18 | 109        | 2.00          | 0.774 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 07/11/2024      | ND           | 2.23 | 111        | 2.00          | 0.885 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 07/11/2024      | ND           | 6.89 | 115        | 6.00          | 0.820 |           |
| Total BTEX                           | <0.300 | 0.300           | 07/11/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 111 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyzed By: CT |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 16.0   | 16.0            | 07/10/2024      | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                            | mg/    | /kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 07/10/2024      | ND           | 186  | 93.2       | 200           | 1.26  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 07/10/2024      | ND           | 180  | 90.2       | 200           | 2.45  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 07/10/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 87.7   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 81.8   | % 49.1-14       | 8               |              |      |            |               |       |           |

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\*=Accredited Analyte

Celecz D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

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

# 101 East Marland, Hobbs, NM 88240

-

PS

| Company Name: A 4. 4-4   | 575) 393-2326 FAX (575) 393-2476   | 6   | 011 170  |   | ANALVOIC DECLIECT                  |
|--|--|---|--|---|------------------------------------|
| Project Manager: And rew Par Ker   | Par Ker  | P.C   | P.O. #20220 103-murchison-prostate   | v-Raza Siate  |                                    |
| Address: On-File   |  | Co  | Company: Mc Nabb Porther   |   |                                    |
| City:  | State: Z   | Zip: Att  | Attn: on threw Bin cruches partners con  | -   |                                    |
| Phone #:   | Fax #:   | Ada   | Address:   | -   |                                    |
| Project #:   | Project Owner:   | City:   | 1  | <del>01</del> ,   |                                    |
| Project Name: 20220105 - Murchison - Pris State }  | murchison - Pis  | State } State:  | te: Zip:   | R   |                                    |
| Project Location: Rio State 3  | ites   |   | Phone #:   | D   |                                    |
| Sampler Name: Chr 75 topher  | phy Turner   | Fax #   | C#:  | 0+<br>2n:   |                                    |
| FOR LAB USE ONLY   |  | S ER MATRIX   | PRESERV. SAMPLING  | ide   |                                    |
| Lab I.D. Sam   | Sample I.D.  | G)RAB OR (C)<br>CONTAINERS<br>GROUNDWATE<br>WASTEWATER<br>SOIL<br>DIL<br>SLUDGE<br>DTHER :  | ACID/BASE:<br>CE / COOL<br>DTHER : ,   | Chlor<br>TPH (<br>BTEX  |                                    |
| _  | 674  | *   | P 20/10 X  | X   |                                    |
|  | 0-2F   |   |  |   |                                    |
| 10-5M  | 2 11 -   |   | 57   | 10:14   |                                    |
|  | 0-2.Ff   |   |  | 10:10   |                                    |
| 6 WS-02  | 2-4F+  | •   |  | 10;23   |                                    |
| Zo-SM L  | 654  |   |  | 12201   |                                    |
| 9 WS-07  | 2-YFF  |   |  | 10:34   |                                    |
| <ul> <li>Liability and Damage<br/>sims including those to<br/>went shall Candinal be if</li> </ul> | aity and client's exclusive remedy for any c<br>any other cause whatsoewer shall be deer<br>al or consequental damages, including with | 's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the emount paid by the cleant for the<br>use whatsoewer shall be deterned warwed unless made in writing and received by Cardinal within 30 days after completion of the a<br>annial damages, including without filmitation, business interruptions, loss of use, or loss of profits incurred by cleant, be subuidantes | shall be limited to the amount paid by<br>ed by Cardinal within 30 days after co<br>use, or loss of profits incurred by client | paid by the client for the applicable<br>after completion of the applicable<br>by client, its subsidiaries. | -                                  |
| Relinguished by:   | manop  | Date: Received By:  | in any of the above stated re-   | Verbal Result: Ves No Add'l Phone #:<br>All Results are emailed. Please provide Email address:              | Add'l Phone #:<br>e Email address: |
| Relinquished By:   |  | Received By:  |  | REMARKS:  |                                    |
| Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other:   | Observed Temp. °C  | Sample Condition<br>Cool Intact   | CHECKED BY: Tu<br>(Initials)   | Turnaround Time: Standard<br>Thermometer ID #140<br>Correction Factor 0°C                                   | Gool Intact Observed Temp. «C      |
| FORM-000 IX 3,4 0//11/23   | + Cardinal an  | 5   | na Dianan amail ahan   |   |                                    |

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 15 of 16

# Received by OCD: 9/26/2024 12:55:51 PM

City: Address: On-File Project Manager: Andrew Farker Relinquished By: HZULUOU Sampler Name: Project Name: 20220105-Murchison-RipStute Project #: Phone #: Company Name: McNabb Partners Project Location: Relinquished Sy Sampler - UPS - Bus - Other: Delivered By: (Circle One) EASE NOTE: List FOR LAB USE ONLY Lab I.D. rses. All claims including those In no event shall Ca 4 MS-10 101 East Marland, Hobbs, NM 88240 aboratories Pio State 3 (575) 393-2326 FAX (575) 393-2476 mistopher Sample I.D. and Observed Temp. °C Corrected Temp. Date: 8721 Time: 1339 Date: Fax #: Time: Project Owner State: 6-2Ft † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Turney 47 shall be deemed waived unless made in writing and recei ő Zip: ← C (G)RAB OR (C)OMP. Received By: Received By # CONTAINERS w GROUNDWATER Sample Condition Cool Intact Pyes Pyes WASTEWATER MATRIX X XSOIL OIL SLUDGE loss of use, or State: OTHER Fax #: City: P.O. #:20220 (03 munchargon-Rivistutes Phone # Attn: andrew Onunibopation Company We Mabb Purtiers Address ved by Cardinal within 30 days ACID/BASE: PRESERV CHECKED BY: × > ICE / COOL loss of pro (Initials) OTHER BILL TO 07/08 Zip: DATE SAMPLING by client, its subsidiaries aller 11:16 Turnaround Time: Correction Factor 0°C All Results are emailed. Please provide Email address. Verbal Result: by the client for the REMARKS TIME tion of the ap Chloride XX licable TPH (GRO+DRO+MRO) BTEX (Benzene) XX Yes Standard Rush XX ON D 20 Add'l Phone #: ANALYSIS Cool Intact Bacteria (only) Sample Condition REQUEST Observed Temp. Corrected Temp. °° ô

Page 16 of 16

#### Page 86 of 235

ARDIN

Received by OCD: 9/26/2024 12:55:51 PM



**Environment Testing** 

# **ANALYTICAL REPORT**

# **PREPARED FOR**

Attn: Dimitry Nikanorov McNabb Partners 5014 W Carlsbad Hwy Hobbs, New Mexico 88240 Generated 8/8/2024 1:14:16 PM Revision 1

JOB DESCRIPTION

RIO STATE #3 Eddy CO NM

# **JOB NUMBER**

890-6964-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

See page two for job notes and contact information.



Page 1 of 28

# **Eurofins Carlsbad**

# Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

# **Authorization**

AMER

Generated 8/8/2024 1:14:16 PM Revision 1

Authorized for release by Jessica Kramer, Project Manager Jessica.Kramer@et.eurofinsus.com (432)704-5440

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

# **Table of Contents**

| Cover Page             | 1  |
|------------------------|----|
| Table of Contents      | 3  |
| Definitions/Glossary   | 4  |
| Case Narrative         | 5  |
| Client Sample Results  | 7  |
| Surrogate Summary      | 12 |
| QC Sample Results      | 13 |
| QC Association Summary | 18 |
| Lab Chronicle          | 21 |
| Certification Summary  | 23 |
| Method Summary         | 24 |
| Sample Summary         | 25 |
| Chain of Custody       | 26 |
| Receipt Checklists     | 27 |
|                        |    |

| Job ID: 890-6964-1 |
|--------------------|
| SDG: Eddy CO NM    |

## Qualifiers

| Quaimers     |  | <br>3 |
|--------------|--|-------|
| GC VOA       |  |       |
| Qualifier    | Qualifier Description  |       |
| S1+          | Surrogate recovery exceeds control limits, high biased.                                    |       |
| U            | Indicates the analyte was analyzed for but not detected.                                   | 5     |
| GC Semi VC   | AC   |       |
| Qualifier    | Qualifier Description  |       |
| *+           | LCS and/or LCSD is outside acceptance limits, high biased.                                 |       |
| *1           | LCS/LCSD RPD exceeds control limits.   |       |
| S1-          | Surrogate recovery exceeds control limits, low biased.                                     |       |
| S1+          | Surrogate recovery exceeds control limits, high biased.                                    | 8     |
| U            | Indicates the analyte was analyzed for but not detected.                                   |       |
| HPLC/IC      |  | 9     |
| Qualifier    | Qualifier Description  |       |
| U            | Indicates the analyte was analyzed for but not detected.                                   |       |
| Glossary     |  |       |
| Abbreviation | These commonly used abbreviations may or may not be present in this report.                |       |
| ¤            | Listed under the "D" column to designate that the result is reported on a dry weight basis |       |
| %R           | Percent Recovery   |       |
| CFL          | Contains Free Liquid   | 40    |
| CFU          | Colony Forming Unit  | 13    |
| CNF          | Contains No Free Liquid  |       |
| DER          | Duplicate Error Ratio (normalized absolute difference)                                     |       |
| Dil Fac      | Dilution Factor  |       |
| וח           | Detection Limit (DeD/DOE)  |       |

| DL             | Detection Limit (DoD/DOE)   |
|----------------|---|
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)   |
| EDL            | Estimated Detection Limit (Dioxin)  |

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit

ML Minimum Level (Dioxin) MPN Most Probable Number

MPNMost Probable NumberMQLMethod Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent

POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Page 91 of 235

#### Client: McNabb Partners Project: RIO STATE #3

#### Job ID: 890-6964-1

#### **Eurofins Carlsbad**

Job Narrative 890-6964-1

#### REVISION

The report being provided is a revision of the original report sent on 8/8/2024. The report (revision 1) is being revised due to Per client email, requesting sample ID correction.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these
  situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise
  specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### Receipt

The samples were received on 7/30/2024 11:11 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.2°C.

#### **Receipt Exceptions**

The following samples were received and analyzed from an unpreserved bulk soil jar: BS - 01 (7') (890-6964-1), BS - 01 (8') (890-6964-2), BS - 01 (9') (890-6964-3), BS - 01 (10') (890-6964-4), BS - 01 (11') (890-6964-5) and BS - 01 (12') (890-6964-6).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BS - 01 (7') (890-6964-1), BS - 01 (8') (890-6964-2), BS - 01 (9') (890-6964-3), BS - 01 (10') (890-6964-4), BS - 01 (11') (890-6964-5), (890-6964-A-1-A MS) and (890-6964-A-1-B MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### **Diesel Range Organics**

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-87078 and analytical batch 880-87131 was outside the control limits.

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-87078 and analytical batch 880-87131 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: BS - 01 (9') (890-6964-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The closing continuing calibration verification (CCVC) associated with batch 880-87133 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8015MOD\_NM: An incorrect volume of surrogate spiking solution was inadvertently added the following samples: (LCS 880-87117/2-A) and (LCSD 880-87117/3-A). Percent recoveries are based on the amount spiked.

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-87117 and analytical batch 880-87133 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

**Eurofins Carlsbad** 

Job ID: 890-6964-1 (Continued)

Client: McNabb Partners Project: RIO STATE #3 Job ID: 890-6964-1

# Eurofins Carlsbad

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-87117 and analytical batch 880-87133 was outside the control limits.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-87117 and analytical batch 880-87133 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28).

Method 8015MOD\_NM: The surrogate recovery for the blank associated with preparation batch 880-87359 and analytical batch 880-87294 was outside the control limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: BS - 01 (8') (890-6964-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (CCV 880-87294/6). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The continuing calibration verification (CCV) associated with batch 880-87294 recovered above the upper control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour limit, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-87294/21).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Eurofins Carlsbad** 

# **Client Sample Results**

Client: McNabb Partners Project/Site: RIO STATE #3

#### Client Sample ID: BS - 01 (7') Date Collected: 07/30/24 08:30 Date Received: 07/30/24 11:11

Sample Depth: 7'

| Analyte                                 |              | Qualifier  | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac      |
|---|--------------|------------|-----------|-----|-------|---|----------------|----------------|--------------|
| Benzene                                 | <0.00202     | U          | 0.00202   |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:45 | 1            |
| Toluene                                 | <0.00202     | U          | 0.00202   |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:45 | 1            |
| Ethylbenzene                            | 0.0216       |            | 0.00202   |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:45 | 1            |
| m-Xylene & p-Xylene                     | 0.0635       |            | 0.00404   |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:45 | 1            |
| o-Xylene                                | 0.0245       |            | 0.00202   |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:45 | 1            |
| Xylenes, Total                          | 0.0880       |            | 0.00404   |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:45 | 1            |
| Surrogate                               | %Recovery    | Qualifier  | Limits    |     |       |   | Prepared       | Analyzed       | Dil Fa       |
| 4-Bromofluorobenzene (Surr)             | 177          | S1+        | 70 - 130  |     |       |   | 07/31/24 09:48 | 07/31/24 11:45 |              |
| 1,4-Difluorobenzene (Surr)              | 92           |            | 70 - 130  |     |       |   | 07/31/24 09:48 | 07/31/24 11:45 |              |
| Method: TAL SOP Total BTEX              | - Total BTE  | X Calculat | tion      |     |       |   |                |                |              |
| Analyte                                 |              | Qualifier  | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac      |
| Total BTEX                              | 0.110        |            | 0.00404   |     | mg/Kg |   |                | 07/31/24 11:45 | 1            |
| Method: SW846 8015 NM - Die             | esel Range ( | Organics ( | DRO) (GC) |     |       |   |                |                |              |
| Analyte                                 |              | Qualifier  | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac      |
| Total TPH                               | <50.0        | U          | 50.0      |     | mg/Kg |   | ·              | 07/31/24 19:47 |              |
|   |              |            |           |     |       |   |                |                |              |
| Method: SW846 8015B NM - D<br>Analyte   | •            | Qualifier  | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac      |
| Gasoline Range Organics                 |              | U *+ *1    | 50.0      |     | mg/Kg |   | 07/31/24 10:01 | 07/31/24 19:47 |              |
| (GRO)-C6-C10                            | 0010         | •          |           |     |       |   |                | 0.701/2110111  |              |
| Diesel Range Organics (Over<br>C10-C28) | <50.0        | U *+ *1    | 50.0      |     | mg/Kg |   | 07/31/24 10:01 | 07/31/24 19:47 |              |
| Oil Range Organics (Over C28-C36)       | <50.0        | U          | 50.0      |     | mg/Kg |   | 07/31/24 10:01 | 07/31/24 19:47 |              |
| Surrogate                               | %Recovery    | Qualifier  | Limits    |     |       |   | Prepared       | Analyzed       | Dil Fa       |
| 1-Chlorooctane                          | 88           |            | 70 - 130  |     |       |   | 07/31/24 10:01 | 07/31/24 19:47 |              |
| o-Terphenyl                             | 100          |            | 70 - 130  |     |       |   | 07/31/24 10:01 | 07/31/24 19:47 | 1            |
| Method: EPA 300.0 - Anions, I           | on Chroma    | tography - | Soluble   |     |       |   |                |                |              |
| Analyte                                 |              | Qualifier  | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac      |
| Chloride                                | 57.3         |            | 5.02      |     | mg/Kg |   |                | 08/02/24 05:42 | 1            |
| lient Sample ID: BS - 01                | (8')         |            |           |     |       |   | Lab Samp       | le ID: 890-6   | <b>964-2</b> |
| ate Collected: 07/30/24 08:45           | (-)          |            |           |     |       |   |                |                | : Solid      |
| ate Received: 07/30/24 11:11            |              |            |           |     |       |   |                |                |              |
| ample Depth: 8'                         |              |            |           |     |       |   |                |                |              |
| · · ·                                   |              |            |           |     |       |   |                |                |              |
| Method: SW846 8021B - Volat             | -            |            |           |     | 1124  | - | Datas          | A              | D'' -        |
| Analyte                                 |              | Qualifier  | RL        | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac      |
| Benzene                                 | <0.00201     | U          | 0.00201   |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 12:06 |              |
| Toluene                                 | 0.241        |            | 0.00201   |     | mg/Kg |   |                | 07/31/24 12:06 |              |
| Ethylbenzene                            | 2.00         |            | 0.0502    |     | mg/Kg |   |                | 07/31/24 19:28 | 2            |
| m-Xylene & p-Xylene                     | 7.81         |            | 0.100     |     | mg/Kg |   |                | 07/31/24 19:28 | 2            |
| o-Xylene                                | 2.78         |            | 0.0502    |     | mg/Kg |   |                | 07/31/24 19:28 | 2            |
|   |              |            |           |     |       |   | 07/04/04 44.40 | 07/04/04 40.00 | 01           |
| Xylenes, Total                          | 10.6         |            | 0.100     |     | mg/Kg |   | 07/31/24 14:43 | 07/31/24 19:28 | 2            |

Job ID: 890-6964-1 SDG: Eddy CO NM

# Lab Sample ID: 890-6964-1

Matrix: Solid

Eurofins Carlsbad

07/31/24 09:48 07/31/24 12:06

70 - 130

143 S1+

1

**Client: McNabb Partners** 

Sample Depth: 8'

Surrogate

Analyte

Analyte

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

(GRO)-C6-C10

**Total TPH** 

**Total BTEX** 

Project/Site: RIO STATE #3

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

**Gasoline Range Organics** 

**Diesel Range Organics (Over** 

Oil Range Organics (Over C28-C36)

Limits

70 - 130

70 - 130

70 - 130

RL

RL

49.8

RL

49.8

49.8

498

Limits

70 - 130

70 - 130

0.100

MDL

MDL Unit

MDL Unit

Unit

mg/Kg

mg/Kg

mg/Kg

D

D

D

Job ID: 890-6964-1 SDG: Eddy CO NM

#### Client Sample ID: BS - 01 (8') Date Collected: 07/30/24 08:45 Date Received: 07/30/24 11:11

# Lab Sample ID: 890-6964-2

Analyzed

Analyzed

07/31/24 19:28

Analyzed

08/02/24 15:39

Analyzed

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

Dil Fac

25

1

25

1

 mg/Kg
 08/02/24 09:59
 08/02/24 15:39
 1
 1

 mg/Kg
 08/02/24 09:59
 08/02/24 15:39
 1
 14

 Prepared
 Analyzed
 Dil Fac

 08/02/24 09:59
 08/02/24 15:39
 1
 14

Prepared

Prepared

Prepared

Prepared

07/31/24 14:43 07/31/24 19:28

07/31/24 09:48 07/31/24 12:06

07/31/24 14:43 07/31/24 19:28

08/02/24 09:59 08/02/24 15:39

# Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Method: SW846 8021B - Volatile Organic Compounds (GC) (Continued)

Method: TAL SOP Total BTEX - Total BTEX Calculation

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)

%Recovery Qualifier

90

110

12.8

2970

899

2070

<49.8 U

%Recovery Qualifier

102

174 S1+

370 S1+

**Result Qualifier** 

**Result Qualifier** 

**Result Qualifier** 

| Analyte  | Result Qualifier | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|----------|------------------|------|----------|---|----------|----------------|---------|
| Chloride | 74.7             | 4.98 | mg/Kg    |   |          | 08/02/24 05:50 | 1       |

#### Client Sample ID: BS - 01 (9') Date Collected: 07/30/24 09:00 Date Received: 07/30/24 11:11 Sample Depth: 9'

# Lab Sample ID: 890-6964-3 Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 12:27 | 1       |
| Toluene                     | 0.247     |           | 0.00200  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 12:27 | 1       |
| Ethylbenzene                | 2.74      |           | 0.0498   |     | mg/Kg |   | 07/31/24 14:43 | 07/31/24 19:49 | 25      |
| m-Xylene & p-Xylene         | 10.7      |           | 0.0996   |     | mg/Kg |   | 07/31/24 14:43 | 07/31/24 19:49 | 25      |
| o-Xylene                    | 3.70      |           | 0.0498   |     | mg/Kg |   | 07/31/24 14:43 | 07/31/24 19:49 | 25      |
| Xylenes, Total              | 14.4      |           | 0.0996   |     | mg/Kg |   | 07/31/24 14:43 | 07/31/24 19:49 | 25      |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 439       | S1+       | 70 - 130 |     |       |   | 07/31/24 09:48 | 07/31/24 12:27 | 1       |
| 4-Bromofluorobenzene (Surr) | 485       | S1+       | 70 - 130 |     |       |   | 07/31/24 14:43 | 07/31/24 19:49 | 25      |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |     |       |   | 07/31/24 09:48 | 07/31/24 12:27 | 1       |
| 1,4-Difluorobenzene (Surr)  | 81        |           | 70 - 130 |     |       |   | 07/31/24 14:43 | 07/31/24 19:49 | 25      |

|   | Analyte    | Result Qualifier | RL     | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|---|------------|------------------|--------|----------|---|----------|----------------|---------|
| L | Total BTEX | 17.4             | 0.0996 | mg/Kg    |   |          | 07/31/24 19:49 | 1       |

**Eurofins Carlsbad** 

Job ID: 890-6964-1 SDG: Eddy CO NM

## Client Sample ID: BS - 01 (9') Date Collected: 07/30/24 09:00

Date Received: 07/30/24 11:11 Sample Depth: 9'

**Client: McNabb Partners** 

Project/Site: RIO STATE #3

| Analyte  |                    | Qualifier             | RL                       | MDL |                | D        | Prepared                   | Analyzed                      | Dil Fa |
|--|--------------------|-----------------------|--------------------------|-----|----------------|----------|----------------------------|-------------------------------|--------|
| Total TPH  | 2220               |                       | 49.8                     |     | mg/Kg          |          |                            | 07/31/24 19:16                |        |
| Method: SW846 8015B NM - D   | )iesel Range       | • Organics            | (DRO) (GC)               |     |                |          |                            |                               |        |
| Analyte  | -                  | Qualifier             | RL                       | MDL | Unit           | D        | Prepared                   | Analyzed                      | Dil Fa |
| Gasoline Range Organics<br>(GRO)-C6-C10  | 665                | *+ *1                 | 49.8                     |     | mg/Kg          |          | 07/30/24 14:57             | 07/31/24 19:16                |        |
| Diesel Range Organics (Over<br>C10-C28)  | 1550               |                       | 49.8                     |     | mg/Kg          |          |                            | 07/31/24 19:16                |        |
| Oil Range Organics (Over C28-C36)  | <49.8              | U                     | 49.8                     |     | mg/Kg          |          | 07/30/24 14:57             | 07/31/24 19:16                |        |
| Surrogate  | %Recovery          |                       | Limits                   |     |                |          | Prepared                   | Analyzed                      | Dil F  |
| 1-Chlorooctane   |                    | S1+                   | 70 - 130                 |     |                |          |                            | 07/31/24 19:16                |        |
| o-Terphenyl  | 86                 |                       | 70 - 130                 |     |                |          | 07/30/24 14:57             | 07/31/24 19:16                |        |
| Method: EPA 300.0 - Anions, I  |                    | · · ·                 |                          |     |                |          | _                          |                               |        |
| Analyte  |                    | Qualifier             | RL                       | MDL |                | D        | Prepared                   | Analyzed                      | Dil F  |
| Chloride   | 150                |                       | 5.04                     |     | mg/Kg          | _        |                            | 08/02/24 05:58                |        |
| lient Sample ID: BS - 01   | (10')              |                       |                          |     |                |          | Lab Samp                   | le ID: 890-6                  | 964    |
| ate Collected: 07/30/24 09:15  | x = = 1            |                       |                          |     |                |          | and annh                   | Matrix                        |        |
| ate Collected: 07/30/24 09:15<br>ate Received: 07/30/24 11:11                      |                    |                       |                          |     |                |          |                            | widtrix                       | 301    |
| ate Received: 07/30/24 11:11<br>ample Depth: 10'                                   |                    |                       |                          |     |                |          |                            |                               |        |
| · ·  |                    |                       |                          |     |                |          |                            |                               |        |
| Method: SW846 8021B - Volat  | -                  | Compound<br>Qualifier | ds (GC)<br><sub>RL</sub> | MD  | (Init          | D        | Droporer                   | Analyzed                      | Dil Fa |
| Analyte<br>Benzene   | Result<br><0.00199 |                       | RL                       | MDL | Unit<br>mg/Kg  | <u>ם</u> | Prepared<br>07/31/24 09:48 | Analyzed<br>07/31/24 12:47    | - Fi   |
|  | <0.00199<br>0.217  | 5                     | 0.00199<br>0.00199       |     | mg/Kg<br>mg/Kg |          |                            |                               |        |
| Toluene<br>Ethylbenzene  | 0.217<br>2.33      |                       | 0.00199<br>0.0497        |     |                |          |                            | 07/31/24 12:47 07/31/24 20:09 | :      |
| Ethylbenzene<br>m-Xylene & n-Xylene  |                    |                       | 0.0497<br>0.0994         |     | mg/Kg<br>mg/Kg |          |                            | 07/31/24 20:09 07/31/24 20:09 |        |
| m-Xylene & p-Xylene  | 8.40<br>2.72       |                       | 0.0994<br>0.0497         |     | mg/Kg<br>mg/Kg |          |                            | 07/31/24 20:09 07/31/24 20:09 | 2      |
| o-Xylene<br>Xylenes Total  | 2.72               |                       |                          |     | mg/Kg<br>mg/Kg |          |                            |                               | -      |
| Xylenes, Total   | 11.1               |                       | 0.0994                   |     | mg/Kg          |          | 01101/24 14:43             | 07/31/24 20:09                | 2      |
| Surrogate  | %Recovery          |                       | Limits                   |     |                |          | Prepared                   | Analyzed                      | Dil Fa |
| 4-Bromofluorobenzene (Surr)  |                    | -                     | 70 - 130                 |     |                |          | 07/31/24 09:48             |                               |        |
| 4-Bromofluorobenzene (Surr)  | 453                | S1+                   | 70 - 130                 |     |                |          | 07/31/24 14:43             | 07/31/24 20:09                | 2      |
| 1,4-Difluorobenzene (Surr)   | 94                 |                       | 70 - 130                 |     |                |          | 07/31/24 09:48             | 07/31/24 12:47                |        |
| 1,4-Difluorobenzene (Surr)   | 80                 |                       | 70 - 130                 |     |                |          | 07/31/24 14:43             | 07/31/24 20:09                | 2      |
| Method: TAL SOP Total BTEX   | - Total BTE        | X Calculat            | ion                      |     |                |          |                            |                               |        |
| Analyte  |                    | Qualifier             | RL                       | MDL | Unit           | D        | Prepared                   | Analyzed                      | Dil Fa |
| Total BTEX   | 13.7               |                       | 0.0994                   |     | mg/Kg          |          |                            | 07/31/24 20:09                |        |
| Method: SW846 8015 NM - Die  | Sel Range (        | Draanice (            |                          |     |                |          |                            |                               |        |
| Method: SVV846 8015 NW - Die<br>Analyte  |                    | Qualifier             | RL                       | MDL | Unit           | D        | Prepared                   | Analyzed                      | Dil Fa |
| Total TPH  | 1300               |                       | 49.7                     |     | mg/Kg          |          |                            | 07/31/24 19:32                |        |
| Method: SW846 8015B NM - D   | )iesel Range       | Organics              | (DRO) (GC)               |     |                |          |                            |                               |        |
| Analyte  | -                  | Qualifier             | RL                       | MDL | Unit           | D        | Prepared                   | Analyzed                      | Dil Fa |
|  |                    | *+ *1                 | 49.7                     |     | mg/Kg          |          | -                          | 07/31/24 19:32                |        |
|  | 343                | - T - I               |                          |     |                |          |                            |                               |        |
| Gasoline Range Organics<br>GRO)-C6-C10   | 343                | * I                   | -10.1                    |     | iiig/itg       |          | 01700/24 14:07             | 5175 HZ + 10.0Z               |        |
| Gasoline Range Organics<br>(GRO)-C6-C10<br>Diesel Range Organics (Over<br>C10-C28) |                    | *+ *1                 | 49.7                     |     | mg/Kg          |          |                            | 07/31/24 19:32                |        |

**Eurofins Carlsbad** 

Lab Sample ID: 890-6964-3 Matrix: Solid 5 **Client: McNabb Partners** 

Sample Depth: 10'

Analyte

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Project/Site: RIO STATE #3

RL

49.7

RL

4.99

Limits

70 - 130

70 - 130

MDL Unit

MDL Unit

mg/Kg

mg/Kg

D

D

D

Prepared

Prepared

Prepared

Prepared

07/30/24 14:57 07/31/24 19:32

07/30/24 14:57 07/31/24 19:32

07/30/24 14:57 07/31/24 19:32

Job ID: 890-6964-1 SDG: Eddy CO NM

#### Client Sample ID: BS - 01 (10') Date Collected: 07/30/24 09:15 Date Received: 07/30/24 11:11

# Lab Sample ID: 890-6964-4

Analyzed

Analyzed

Analyzed

08/02/24 06:06

Lab Sample ID: 890-6964-5

Matrix: Solid

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

1

1

5

|                                 | _ |
|---------------------------------|---|
| Client Sample ID: BS - 01 (11') |   |
| Date Collected: 07/30/24 09:30  |   |

Date Received: 07/30/24 11:11 Sample Depth: 11'

Oil Range Organics (Over C28-C36)

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:08 | 1       |
| Toluene                     | 0.00381   |           | 0.00199  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:08 | 1       |
| Ethylbenzene                | 0.0443    |           | 0.00199  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:08 | 1       |
| m-Xylene & p-Xylene         | 0.114     |           | 0.00398  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:08 | 1       |
| o-Xylene                    | 0.0347    |           | 0.00199  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:08 | 1       |
| Xylenes, Total              | 0.149     |           | 0.00398  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:08 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 229       | S1+       | 70 - 130 |     |       |   | 07/31/24 09:48 | 07/31/24 13:08 | 1       |
| 1,4-Difluorobenzene (Surr)  | 93        |           | 70 - 130 |     |       |   | 07/31/24 09:48 | 07/31/24 13:08 | 1       |

| Method: TAL SOP Total BTE | X - Total BTEX Calculat | ion       |     |       |   |          |                |         |
|---------------------------|-------------------------|-----------|-----|-------|---|----------|----------------|---------|
| Analyte                   | Result Qualifier        | RL        | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Total BTEX                | 0.197                   | 0.00398   |     | mg/Kg |   |          | 07/31/24 13:08 | 1       |
| Method: SW846 8015 NM - [ | Diesel Range Organics ( | DRO) (GC) |     |       |   |          |                |         |

| Analyte   | Result Qualifier | RL   | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
|-----------|------------------|------|----------|---|----------|----------------|---------|
| Total TPH | 97.1             | 49.7 | mg/Kg    |   |          | 07/31/24 19:47 | 1       |

#### Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) Analyte Result Qualifier RL MDL Unit ~10.7 40.7 Gasoline Range Organics malka

| Gasoline Range Organics<br>(GRO)-C6-C10 | <49.7     | U *+ *1   | 49.7     | mg/Kg | 07/30/24 14:57 | 07/31/24 19:47 | 1       |
|---|-----------|-----------|----------|-------|----------------|----------------|---------|
| Diesel Range Organics (Over<br>C10-C28) | 97.1      | *+ *1     | 49.7     | mg/Kg | 07/30/24 14:57 | 07/31/24 19:47 | 1       |
| Oil Range Organics (Over C28-C36)       | <49.7     | U         | 49.7     | mg/Kg | 07/30/24 14:57 | 07/31/24 19:47 | 1       |
| Surrogate                               | %Recovery | Qualifier | Limits   |       | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 91        |           | 70 - 130 |       | 07/30/24 14:57 | 07/31/24 19:47 | 1       |
| o-Terphenyl                             | 79        |           | 70 - 130 |       | 07/30/24 14:57 | 07/31/24 19:47 | 1       |

| Method: EPA 300.0 - Anions, Io | on Chromat | ography - | Soluble |     |       |   |          |                |         |
|--------------------------------|------------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Analyte                        | Result     | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                       | 138        |           | 5.02    |     | mg/Kg |   |          | 08/02/24 06:14 | 1       |

**Eurofins Carlsbad** 

Analyzed

Dil Fac

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

<49.7 U

%Recovery Qualifier

124

86

114

Result Qualifier

Result Qualifier

# **Client Sample Results**

**Client: McNabb Partners** Project/Site: RIO STATE #3

#### 01 (12') **Client S Date Coll Date Rec**

| Sample ID: BS - 01 (12) |  |
|-------------------------|--|
| lected: 07/30/24 09:45  |  |
| eived: 07/30/24 11:11   |  |

| Sample Depth: 12'   |                  |           |         |     |       |   |                |                |
|---------------------|------------------|-----------|---------|-----|-------|---|----------------|----------------|
|                     | /olatile Organic | Compound  | ds (GC) |     |       |   |                |                |
| Analyte             | Result           | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       |
| Benzene             | < 0.00202        | U         | 0.00202 |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:29 |
| Toluene             | 0.00586          |           | 0.00202 |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:29 |
| Ethylbenzene        | <0.00202         | U         | 0.00202 |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:29 |
| m-Xylene & p-Xylene | 0.00462          |           | 0.00404 |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:29 |
| o-Xylene            | 0.00402          |           | 0.00202 |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 13:29 |

| Xylenes, Total              | 0.00864             | 0.00404  |
|-----------------------------|---------------------|----------|
| Surrogate                   | %Recovery Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 110                 | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 82                  | 70 - 130 |

5.26

| Method: TAL SOP Total BTEX | - Total BTEX Calculat | ion     |          |   |          |                |         |
|----------------------------|-----------------------|---------|----------|---|----------|----------------|---------|
| Analyte                    | Result Qualifier      | RL      | MDL Unit | D | Prepared | Analyzed       | Dil Fac |
| Total BTEX                 | 0.0145                | 0.00404 | mg/Kg    |   |          | 07/31/24 13:29 | 1       |

mg/Kg

mg/Kg

| Method: SW846 8015 NM - Dies | sel Range ( | Organics (D | RO) (GC) |         |      |   |          |                |         |  |
|------------------------------|-------------|-------------|----------|---------|------|---|----------|----------------|---------|--|
| Analyte                      | Result      | Qualifier   | RL       | MDL Uni | it   | D | Prepared | Analyzed       | Dil Fac |  |
| Total TPH                    | <50.0       | U           | 50.0     | mg      | J/Kg |   |          | 07/31/24 20:18 | 1       |  |

| Analyte                                 | Result     | Qualifier  | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---|------------|------------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0      | U *+ *1    | 50.0     |     | mg/Kg |   | 07/30/24 14:57 | 07/31/24 20:18 | 1       |
| Diesel Range Organics (Over<br>C10-C28) | <50.0      | U *+ *1    | 50.0     |     | mg/Kg |   | 07/30/24 14:57 | 07/31/24 20:18 | 1       |
| Oil Range Organics (Over C28-C36)       | <50.0      | U          | 50.0     |     | mg/Kg |   | 07/30/24 14:57 | 07/31/24 20:18 | 1       |
| Surrogate                               | %Recovery  | Qualifier  | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 91         |            | 70 - 130 |     |       |   | 07/30/24 14:57 | 07/31/24 20:18 | 1       |
| o-Terphenyl                             | 80         |            | 70 - 130 |     |       |   | 07/30/24 14:57 | 07/31/24 20:18 | 1       |
| Method: EPA 300.0 - Anions,             | Ion Chroma | tography - | Soluble  |     |       |   |                |                |         |
| Analyte                                 | Desult     | Qualifier  | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |

5.04

Page 97 of 235

Analyzed

08/02/24 06:38

07/31/24 09:48 07/31/24 13:29

07/31/24 09:48 07/31/24 13:29

07/31/24 09:48 07/31/24 13:29

Prepared

1

1

1

1

1

1

1

1

Dil Fac

**Eurofins Carlsbad** 

Chloride

# **Surrogate Summary**

Client: McNabb Partners Project/Site: RIO STATE #3

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

|                       |                        |          | Per      | cent Surrogate Recove |
|-----------------------|------------------------|----------|----------|-----------------------|
|                       |                        | BFB1     | DFBZ1    | -                     |
| Lab Sample ID         | Client Sample ID       | (70-130) | (70-130) |                       |
| 890-6964-1            | BS - 01 (7')           | 177 S1+  | 92       |                       |
| 890-6964-1 MS         | BS - 01 (7')           | 191 S1+  | 94       |                       |
| 890-6964-1 MSD        | BS - 01 (7')           | 208 S1+  | 90       |                       |
| 890-6964-2            | BS - 01 (8')           | 143 S1+  | 90       |                       |
| 890-6964-2            | BS - 01 (8')           | 370 S1+  | 110      |                       |
| 890-6964-3            | BS - 01 (9')           | 439 S1+  | 93       |                       |
| 890-6964-3            | BS - 01 (9')           | 485 S1+  | 81       |                       |
| 890-6964-4            | BS - 01 (10')          | 321 S1+  | 94       |                       |
| 890-6964-4            | BS - 01 (10')          | 453 S1+  | 80       |                       |
| 890-6964-5            | BS - 01 (11')          | 229 S1+  | 93       |                       |
| 890-6964-6            | BS - 01 (12')          | 110      | 82       |                       |
| LCS 880-87116/1-A     | Lab Control Sample     | 114      | 92       |                       |
| LCSD 880-87116/2-A    | Lab Control Sample Dup | 124      | 99       |                       |
| MB 880-87116/5-A      | Method Blank           | 86       | 88       |                       |
| 0                     |                        |          |          |                       |
| Surrogate Legend      |                        |          |          |                       |
| BFB = 4-Bromofluorob  | enzene (Surr)          |          |          |                       |
| DFBZ = 1,4-Difluorobe | enzene (Surr)          |          |          |                       |

#### Method: 8015B NM - Diesel Range Organics (DRO) (GC) Matrix: Solid

|                    |                        |          | Pe       |
|--------------------|------------------------|----------|----------|
|                    |                        | 1CO1     | OTPH1    |
| Lab Sample ID      | Client Sample ID       | (70-130) | (70-130) |
| 890-6964-1         | BS - 01 (7')           | 88       | 100      |
| 890-6964-2         | BS - 01 (8')           | 174 S1+  | 102      |
| 890-6964-3         | BS - 01 (9')           | 142 S1+  | 86       |
| 890-6964-4         | BS - 01 (10')          | 124      | 86       |
| 890-6964-5         | BS - 01 (11')          | 91       | 79       |
| 890-6964-6         | BS - 01 (12')          | 91       | 80       |
| LCS 880-87078/2-A  | Lab Control Sample     | 125      | 106      |
| LCS 880-87117/2-A  | Lab Control Sample     | 200 S1+  | 208 S1+  |
| LCS 880-87359/2-A  | Lab Control Sample     | 89       | 74       |
| LCSD 880-87078/3-A | Lab Control Sample Dup | 168 S1+  | 139 S1+  |
| LCSD 880-87117/3-A | Lab Control Sample Dup | 131 S1+  | 134 S1+  |
| LCSD 880-87359/3-A | Lab Control Sample Dup | 87       | 72       |
| MB 880-87078/1-A   | Method Blank           | 64 S1-   | 59 S1-   |
| MB 880-87117/1-A   | Method Blank           | 54 S1-   | 65 S1-   |
| MB 880-87359/1-A   | Method Blank           | 63 S1-   | 58 S1-   |
| 0                  |                        |          |          |

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

# Prep Type: Total/NA

Released to Imaging: 9/30/2024 10:20:23 AM

Job ID: 890-6964-1

SDG: Eddy CO NM

Prep Type: Total/NA

**Client: McNabb Partners** Project/Site: RIO STATE #3

## Method: 8021B - Volatile Organic Compounds (GC)

#### Lab Sample ID: MB 880-87116/5-A **Matrix: Solid Analysis Batch: 87103**

|                             | MB        | MB        |          |     |       |   |                |                |         |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Benzene                     | < 0.00200 | U         | 0.00200  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:24 | 1       |
| Toluene                     | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:24 | 1       |
| Ethylbenzene                | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:24 | 1       |
| m-Xylene & p-Xylene         | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:24 | 1       |
| o-Xylene                    | <0.00200  | U         | 0.00200  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:24 | 1       |
| Xylenes, Total              | <0.00400  | U         | 0.00400  |     | mg/Kg |   | 07/31/24 09:48 | 07/31/24 11:24 | 1       |
|                             | MB        | MB        |          |     |       |   |                |                |         |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 86        |           | 70 - 130 |     |       |   | 07/31/24 09:48 | 07/31/24 11:24 | 1       |
| 1,4-Difluorobenzene (Surr)  | 88        |           | 70 - 130 |     |       |   | 07/31/24 09:48 | 07/31/24 11:24 | 1       |

#### Lab Sample ID: LCS 880-87116/1-A Matrix: Solid **Analysis Batch: 87103**

| Analysis Batch: 87103 |       |        |           |       |   |      | Prep Batch: 87116 |  |  |
|-----------------------|-------|--------|-----------|-------|---|------|-------------------|--|--|
|                       | Spike | LCS    | LCS       |       |   |      | %Rec              |  |  |
| Analyte               | Added | Result | Qualifier | Unit  | D | %Rec | Limits            |  |  |
| Benzene               | 0.100 | 0.1127 |           | mg/Kg |   | 113  | 70 - 130          |  |  |
| Toluene               | 0.100 | 0.1061 |           | mg/Kg |   | 106  | 70 - 130          |  |  |
| Ethylbenzene          | 0.100 | 0.1215 |           | mg/Kg |   | 122  | 70 - 130          |  |  |
| m-Xylene & p-Xylene   | 0.200 | 0.2461 |           | mg/Kg |   | 123  | 70 - 130          |  |  |
| o-Xylene              | 0.100 | 0.1243 |           | mg/Kg |   | 124  | 70 - 130          |  |  |

|                             | LCS       | LCS       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 114       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 92        |           | 70 - 130 |

#### Lab Sample ID: LCSD 880-87116/2-A Matrix: Solid

#### Analysis Batch: 87103

| Analysis Batch: 87103 |       |        |           |       |   |      | Prep E   | •   |       |
|-----------------------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| -                     | Spike | LCSD   | LCSD      |       |   |      | %Rec     |     | RPD   |
| Analyte               | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Benzene               | 0.100 | 0.1107 |           | mg/Kg |   | 111  | 70 - 130 | 2   | 35    |
| Toluene               | 0.100 | 0.1000 |           | mg/Kg |   | 100  | 70 - 130 | 6   | 35    |
| Ethylbenzene          | 0.100 | 0.1056 |           | mg/Kg |   | 106  | 70 - 130 | 14  | 35    |
| m-Xylene & p-Xylene   | 0.200 | 0.2212 |           | mg/Kg |   | 111  | 70 - 130 | 11  | 35    |
| o-Xylene              | 0.100 | 0.1089 |           | mg/Kg |   | 109  | 70 - 130 | 13  | 35    |

|                             | LCSD      | LCSD      |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 124       |           | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 99        |           | 70 - 130 |

#### Lab Sample ID: 890-6964-1 MS Matrix: Solid

| Matrix: Solid         |          |           |       |         |           |       |   |      |          | pe: Total/NA |
|-----------------------|----------|-----------|-------|---------|-----------|-------|---|------|----------|--------------|
| Analysis Batch: 87103 |          |           |       |         |           |       |   |      | Prep I   | Batch: 87116 |
|                       | Sample   | Sample    | Spike | MS      | MS        |       |   |      | %Rec     |              |
| Analyte               | Result   | Qualifier | Added | Result  | Qualifier | Unit  | D | %Rec | Limits   |              |
| Benzene               | <0.00202 | U         | 0.100 | 0.1014  |           | mg/Kg |   | 101  | 70 - 130 |              |
| Toluene               | <0.00202 | U         | 0.100 | 0.09237 |           | mg/Kg |   | 92   | 70 - 130 |              |

#### **Eurofins Carlsbad**

Client Sample ID: BS - 01 (7')

5

7

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

**Prep Type: Total/NA** 

Prep Type: Total/NA

**Client: McNabb Partners** Project/Site: RIO STATE #3

Job ID: 890-6964-1 SDG: Eddy CO NM

Page 100 of 235

# Method: 8021B - Volatile Organic Compounds (GC) (Continued)

| Lab Sample ID: 890-6964<br>Matrix: Solid<br>Analysis Batch: 87103 | -1 MS       |           |          |         |           |       |      | Client S | Sample ID<br>Prep Ty<br>Prep E |     | al/NÁ |
|---|-------------|-----------|----------|---------|-----------|-------|------|----------|--------------------------------|-----|-------|
|   | Sample      | Sample    | Spike    | MS      | MS        |       |      |          | %Rec                           |     |       |
| Analyte   | Result      | Qualifier | Added    | Result  | Qualifier | Unit  | D    | %Rec     | Limits                         |     |       |
| Ethylbenzene  | 0.0216      |           | 0.100    | 0.1269  |           | mg/Kg |      | 105      | 70 - 130                       |     |       |
| m-Xylene & p-Xylene   | 0.0635      |           | 0.200    | 0.2938  |           | mg/Kg |      | 115      | 70 - 130                       |     |       |
| o-Xylene  | 0.0245      |           | 0.100    | 0.1289  |           | mg/Kg |      | 104      | 70 - 130                       |     |       |
|   | MS          | MS        |          |         |           |       |      |          |                                |     |       |
| Surrogate   | %Recovery   | Qualifier | Limits   |         |           |       |      |          |                                |     |       |
| 4-Bromofluorobenzene (Surr)                                       | 191         | S1+       | 70 - 130 |         |           |       |      |          |                                |     |       |
| 1,4-Difluorobenzene (Surr)  | 94          |           | 70 - 130 |         |           |       |      |          |                                |     |       |
| Lab Sample ID: 890-6964<br>Matrix: Solid<br>Analysis Batch: 87103 | -1 MSD      |           |          |         |           |       |      | Client S | Sample ID<br>Prep Ty<br>Prep E |     | al/NA |
|   | Sample      | Sample    | Spike    | MSD     | MSD       |       |      |          | %Rec                           |     | RPD   |
| Analyte   | Result      | Qualifier | Added    | Result  | Qualifier | Unit  | D    | %Rec     | Limits                         | RPD | Limit |
| Benzene   | <0.00202    | U         | 0.100    | 0.1022  |           | mg/Kg |      | 102      | 70 - 130                       | 1   | 35    |
| Toluene   | <0.00202    | U         | 0.100    | 0.09602 |           | mg/Kg |      | 96       | 70 - 130                       | 4   | 35    |
| Ethylbenzene  | 0.0216      |           | 0.100    | 0.1281  |           | mg/Kg |      | 106      | 70 - 130                       | 1   | 35    |
| m-Xylene & p-Xylene   | 0.0635      |           | 0.200    | 0.2897  |           | mg/Kg |      | 113      | 70 - 130                       | 1   | 35    |
| o-Xylene  | 0.0245      |           | 0.100    | 0.1268  |           | mg/Kg |      | 102      | 70 - 130                       | 2   | 35    |
|   | MSD         | MSD       |          |         |           |       |      |          |                                |     |       |
| Surrogate   | %Recovery   | Qualifier | Limits   |         |           |       |      |          |                                |     |       |
| 4-Bromofluorobenzene (Surr)                                       | 208         | S1+       | 70 - 130 |         |           |       |      |          |                                |     |       |
| 1,4-Difluorobenzene (Surr)  | 90          |           | 70 - 130 |         |           |       |      |          |                                |     |       |
| lethod: 8015B NM - D  | Diesel Rang | ge Orgar  | ics (DRO | ) (GC)  |           |       |      |          |                                |     |       |
| Lab Sample ID: MB 880-8<br>Matrix: Solid                          | 37078/1-A   |           |          |         |           |       | Clie | ent San  | nple ID: M<br>Prep Ty          |     |       |

#### **Matrix: Solid** Analysis Batch: 87131

| Analysis Batch: 87131                   |           |           |        |     |       |   |                | Prep Batch     | 87078   |
|---|-----------|-----------|--------|-----|-------|---|----------------|----------------|---------|
|   | MB        | МВ        |        |     |       |   |                |                |         |
| Analyte                                 | Result    | Qualifier | RL     | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0     | U         | 50.0   |     | mg/Kg |   | 07/30/24 14:57 | 07/31/24 11:54 | 1       |
| Diesel Range Organics (Over<br>C10-C28) | <50.0     | U         | 50.0   |     | mg/Kg |   | 07/30/24 14:57 | 07/31/24 11:54 | 1       |
| Oil Range Organics (Over C28-C36)       | <50.0     | U         | 50.0   |     | mg/Kg |   | 07/30/24 14:57 | 07/31/24 11:54 | 1       |
|   | MB        | MB        |        |     |       |   |                |                |         |
| Surrogate                               | %Recovery | Qualifier | Limits |     |       |   | Prepared       | Analyzed       | Dil Fac |

| Surrogate      | %Recovery | Qualifier | Limits   |
|----------------|-----------|-----------|----------|
| 1-Chlorooctane | 64        | S1-       | 70 - 130 |
| o-Terphenyl    | 59        | S1-       | 70 - 130 |

#### Lab Sample ID: LCS 880-87078/2-A Matrix: Solid Analysis Batch: 87131

| Analysis Batch: 87131       |       |        |           |       |   |      | Prep Batch: 87078 |  |  |
|-----------------------------|-------|--------|-----------|-------|---|------|-------------------|--|--|
|                             | Spike | LCS    | LCS       |       |   |      | %Rec              |  |  |
| Analyte                     | Added | Result | Qualifier | Unit  | D | %Rec | Limits            |  |  |
| Gasoline Range Organics     | 1000  | 1101   |           | mg/Kg |   | 110  | 70 - 130          |  |  |
| (GRO)-C6-C10                |       |        |           |       |   |      |                   |  |  |
| Diesel Range Organics (Over | 1000  | 1115   |           | mg/Kg |   | 112  | 70 - 130          |  |  |
| C10-C28)                    |       |        |           |       |   |      |                   |  |  |

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**Prep Type: Total/NA** 

07/30/24 14:57 07/31/24 11:54

07/30/24 14:57 07/31/24 11:54

**Client Sample ID: Lab Control Sample** 

1

1

Client: McNabb Partners Project/Site: RIO STATE #3

# Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

**Prep Type: Total/NA** 

Prep Type: Total/NA

Prep Batch: 87078

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

| 5 |
|---|
|   |
| 7 |
| 8 |
| 9 |
|   |
|   |
|   |

| Client Sample ID: Method Blank |
|--------------------------------|
| Prep Type: Total/NA            |
| Prep Batch: 87117              |

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

#### Lab Sample ID: LCS 880-87078/2-A Matrix: Solid Analysis Batch: 87131

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 125       |           | 70 - 130 |
| o-Terphenyl    | 106       |           | 70 - 130 |

# Lab Sample ID: LCSD 880-87078/3-A Matrix: Solid

| Analysis Batch: 87131                   |       |        |           |       |   |      | Prep E   | Satch: 8 | 37078 |
|---|-------|--------|-----------|-------|---|------|----------|----------|-------|
|   | Spike | LCSD   | LCSD      |       |   |      | %Rec     |          | RPD   |
| Analyte                                 | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD      | Limit |
| Gasoline Range Organics<br>(GRO)-C6-C10 | 1000  | 1425   | *+ *1     | mg/Kg |   | 143  | 70 - 130 | 26       | 20    |
| Diesel Range Organics (Over C10-C28)    | 1000  | 1386   | *+ *1     | mg/Kg |   | 139  | 70 - 130 | 22       | 20    |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 168       | S1+       | 70 - 130 |
| o-Terphenyl    | 139       | S1+       | 70 - 130 |

#### Lab Sample ID: MB 880-87117/1-A Matrix: Solid

#### Analysis Batch: 87133

|   | МВ        | МВ        |          |     |       |   |                |                |         |
|---|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Analyte                                 | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
| Gasoline Range Organics<br>(GRO)-C6-C10 | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/31/24 10:01 | 07/31/24 11:39 | 1       |
| Diesel Range Organics (Over<br>C10-C28) | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/31/24 10:01 | 07/31/24 11:39 | 1       |
| Oil Range Organics (Over C28-C36)       | <50.0     | U         | 50.0     |     | mg/Kg |   | 07/31/24 10:01 | 07/31/24 11:39 | 1       |
|   | MB        | MB        |          |     |       |   |                |                |         |
| Surrogate                               | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                          | 54        | S1-       | 70 - 130 |     |       |   | 07/31/24 10:01 | 07/31/24 11:39 | 1       |
| o-Terphenyl                             | 65        | S1-       | 70 - 130 |     |       |   | 07/31/24 10:01 | 07/31/24 11:39 | 1       |

#### Lab Sample ID: LCS 880-87117/2-A Matrix: Solid Analysis Batch: 87133

| Analysis Batch: 87133                   |       |        |           |       |   |      | Ргер Ва  | itch: 87117 |
|---|-------|--------|-----------|-------|---|------|----------|-------------|
|   | Spike | LCS    | LCS       |       |   |      | %Rec     |             |
| Analyte                                 | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |             |
| Gasoline Range Organics<br>(GRO)-C6-C10 | 1000  | 1449   | *+        | mg/Kg |   | 145  | 70 - 130 |             |
| Diesel Range Organics (Over<br>C10-C28) | 1000  | 1934   | *+        | mg/Kg |   | 193  | 70 - 130 |             |

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 200       | S1+       | 70 - 130 |
| o-Terphenyl    | 208       | S1+       | 70 - 130 |

Client: McNabb Partners Project/Site: RIO STATE #3 Job ID: 890-6964-1 SDG: Eddy CO NM

Page 102 of 235

# Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Matrix: Solid                                 |                    |      |           |          |      |        |      |        |          |      |          |             | <b>Prep Ty</b> | pe: To  | tal/N      |
|---|--------------------|------|-----------|----------|------|--------|------|--------|----------|------|----------|-------------|----------------|---------|------------|
| Analysis Batch: 87133                         |                    |      |           |          |      |        |      |        |          |      |          |             |                | Batch:  |            |
| •   |                    |      |           | Spike    |      | LCSD   | LCS  | D      |          |      |          |             | %Rec           |         | RP         |
| Analyte                                       |                    |      |           | Added    |      | Result | Qua  | lifier | Unit     |      | D        | %Rec        | Limits         | RPD     | Lin        |
| Gasoline Range Organics                       |                    |      |           | 1000     |      | 1076   | *1   |        | mg/Kg    |      | _        | 108         | 70 - 130       |         |            |
| (GRO)-C6-C10                                  |                    |      |           |          |      |        |      |        | 0 0      |      |          |             |                |         |            |
| Diesel Range Organics (Over                   |                    |      |           | 1000     |      | 1238   | *1   |        | mg/Kg    |      |          | 124         | 70 - 130       | 44      | 2          |
| C10-C28)                                      |                    |      |           |          |      |        |      |        |          |      |          |             |                |         |            |
|   | LCSD               | LCS  | D         |          |      |        |      |        |          |      |          |             |                |         |            |
| Surrogate                                     | %Recovery          | Qua  | lifier    | Limits   |      |        |      |        |          |      |          |             |                |         |            |
| 1-Chlorooctane                                | 131                | S1+  |           | 70 - 130 | -    |        |      |        |          |      |          |             |                |         |            |
| o-Terphenyl                                   | 134                | S1+  |           | 70 - 130 |      |        |      |        |          |      |          |             |                |         |            |
|   |                    |      |           |          |      |        |      |        |          |      |          |             |                |         |            |
| Lab Sample ID: MB 880-873                     | 859/1-A            |      |           |          |      |        |      |        |          |      | Clie     | nt Samp     | ole ID: M      | lethod  | Blar       |
| Matrix: Solid                                 |                    |      |           |          |      |        |      |        |          |      |          |             | Prep Ty        |         |            |
| Analysis Batch: 87294                         |                    |      |           |          |      |        |      |        |          |      |          |             | Prep E         | Batch:  | 873        |
|   |                    | MB   | MB        |          |      |        |      |        |          |      |          |             |                |         |            |
| Analyte                                       |                    |      | Qualifier |          | RL   |        | MDL  | Unit   |          | D    | Pr       | epared      | Analy          | zed     | Dil F      |
| Gasoline Range Organics                       | <                  | 50.0 | U         |          | 50.0 |        |      | mg/K   | g        | _    | 08/02    | 2/24 09:58  | 08/02/24       | 10:00   |            |
| (GRO)-C6-C10                                  |                    |      |           |          |      |        |      |        |          |      |          |             |                |         |            |
| Diesel Range Organics (Over                   | <                  | 50.0 | U         |          | 50.0 |        |      | mg/K   | g        |      | 08/02    | 2/24 09:58  | 08/02/24       | 10:00   |            |
| C10-C28)<br>Oil Bango Organico (Over C28 C26) |                    | 50 0 |           |          | 50.0 |        |      | malk   | ~        |      | 00/01    | 0/04 00.50  | 00/00/04       | 10.00   |            |
| Oil Range Organics (Over C28-C36)             |                    | 50.0 | 0         |          | 50.0 |        |      | mg/K   | J        |      | 00/02    | 2/24 09:56  | 08/02/24       | 10:00   |            |
|   |                    | MВ   | MB        |          |      |        |      |        |          |      |          |             |                |         |            |
| Surrogate                                     | %Reco              | very | Qualifier | Lim      | nits |        |      |        |          |      | Pr       | epared      | Analy          | zed     | Dil F      |
| 1-Chlorooctane                                |                    | 63   | S1-       | 70 -     | 130  |        |      |        |          |      | 08/02    | 2/24 09:58  | 08/02/24       | 10:00   |            |
| o-Terphenyl                                   |                    | 58   | S1-       | 70 -     | 130  |        |      |        |          |      | 08/02    | 2/24 09:58  | 08/02/24       | 10:00   |            |
|   |                    |      |           |          |      |        |      |        |          |      | _        |             |                |         |            |
| Lab Sample ID: LCS 880-87                     | 359/2-A            |      |           |          |      |        |      |        | Clie     | ent  | San      | nple ID:    | Lab Coi        |         |            |
| Matrix: Solid                                 |                    |      |           |          |      |        |      |        |          |      |          |             | Prep Ty        | -       |            |
| Analysis Batch: 87294                         |                    |      |           |          |      |        |      |        |          |      |          |             |                | Batch:  | 873        |
| A secol sta                                   |                    |      |           | Spike    |      | -      | LCS  |        | 11       |      | -        | 0/ <b>D</b> | %Rec           |         |            |
| Analyte                                       |                    |      |           | Added    |      | Result |      | litier | Unit     |      | D        | %Rec        | Limits         |         |            |
| Gasoline Range Organics                       |                    |      |           | 1000     |      | 904.5  |      |        | mg/Kg    |      |          | 90          | 70 - 130       |         |            |
| (GRO)-C6-C10<br>Diesel Range Organics (Over   |                    |      |           | 1000     |      | 759.4  |      |        | mg/Kg    |      |          | 76          | 70 - 130       |         |            |
| C10-C28)                                      |                    |      |           | 1000     |      | 100.4  |      |        | iiig/itg |      |          | 10          | 10-100         |         |            |
| ,   |                    |      |           |          |      |        |      |        |          |      |          |             |                |         |            |
|   | LCS                |      |           |          |      |        |      |        |          |      |          |             |                |         |            |
| Surrogate                                     | %Recovery          | Qua  | lifier    | Limits   | -    |        |      |        |          |      |          |             |                |         |            |
| 1-Chlorooctane                                | 89                 |      |           | 70 - 130 |      |        |      |        |          |      |          |             |                |         |            |
| o-Terphenyl                                   | 74                 |      |           | 70 - 130 |      |        |      |        |          |      |          |             |                |         |            |
| Lab Sample ID: LCSD 880-8                     | 27350/2_4          |      |           |          |      |        |      | ~      | liont S  | am   | nlo      | ID: Lab     | Control        | Samel   | ۰ <b>ח</b> |
| Matrix: Solid                                 | 7 33313 <b>-</b> A |      |           |          |      |        |      | U U    |          | arri | ые       |             | Prep Ty        |         |            |
|   |                    |      |           |          |      |        |      |        |          |      |          |             |                | Batch:  |            |
| Analysis Batch: 87294                         |                    |      |           | Spike    |      | LCSD   | 1.00 | п      |          |      |          |             | %Rec           | Saturi: | 873<br>RF  |
| Analyto                                       |                    |      |           | Added    |      | Result |      |        | Unit     |      | D        | %Rec        | %Rec           | RPD     | Lin        |
| Analyte<br>Gasoline Range Organics            |                    |      |           | 1000     |      | 862.0  |      | mer    | mg/Kg    |      | <u> </u> | 86          | 70 - 130       | 5       |            |
| Gasoline Range Organics                       |                    |      |           | 1000     |      | 002.0  |      |        | iiig/Kg  |      |          | 00          | 10-130         | 5       |            |
| Diesel Range Organics (Over                   |                    |      |           | 1000     |      | 744.4  |      |        | mg/Kg    |      |          | 74          | 70 - 130       | 2       | :          |
|   |                    |      |           |          |      |        |      |        |          |      |          |             |                |         |            |

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**Client: McNabb Partners** Project/Site: RIO STATE #3

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

| Lab Sample ID: LCSD 880-<br>Matrix: Solid<br>Analysis Batch: 87294 | 87359/3-A  |                |          |      |        |     | C      | lient S | ample  | e ID: Lat | o Control<br>Prep Ty<br>Prep B |  | tal/NA  |
|--|------------|----------------|----------|------|--------|-----|--------|---------|--------|-----------|--------------------------------|--|---------|
|  | LCSD       | LCSD           |          |      |        |     |        |         |        |           |                                |  |         |
| Surrogate  | %Recovery  | Qualifier      | Limits   |      |        |     |        |         |        |           |                                |  |         |
| 1-Chlorooctane   | 87         |                | 70 - 130 | -    |        |     |        |         |        |           |                                |  |         |
| o-Terphenyl  | 72         |                | 70 - 130 |      |        |     |        |         |        |           |                                |  |         |
| Method: 300.0 - Anions   | , Ion Chro | omatograp      | ohy      |      |        |     |        |         |        |           |                                |  |         |
| Lab Sample ID: MB 880-87   | 136/1-A    |                |          |      |        |     |        |         | Cli    | ent San   | nple ID: M                     | lethod                                       | Blank   |
| Matrix: Solid  |            |                |          |      |        |     |        |         |        |           | Prep T                         |  |         |
| Analysis Batch: 87209  |            |                |          |      |        |     |        |         |        |           |                                | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,      |         |
|  |            | MB MB          |          |      |        |     |        |         |        |           |                                |  |         |
| Analyte  | Re         | sult Qualifier |          | RL   |        | MDL | Unit   |         | DF     | Prepared  | Analy                          | zed  | Dil Fac |
| Chloride   |            | 5.00 U         |          | 5.00 |        |     | mg/K   | a       |        |           | 08/02/24                       |  | 1       |
|  |            |                |          |      |        |     | 0      | 0       |        |           |                                |  |         |
| Lab Sample ID: LCS 880-8   | 7136/2-A   |                |          |      |        |     |        | Clie    | ent Sa | mple ID   | : Lab Co                       | ntrol S                                      | ample   |
| Matrix: Solid  |            |                |          |      |        |     |        |         |        |           | Prep T                         | ype: S                                       | oluble  |
| Analysis Batch: 87209  |            |                |          |      |        |     |        |         |        |           |                                |  |         |
|  |            |                | Spike    |      | LCS    | LCS | ;      |         |        |           | %Rec                           |  |         |
| Analyte  |            |                | Added    |      | Result | Qua | lifier | Unit    | D      | %Rec      | Limits                         |  |         |
| Chloride   |            |                | 250      |      | 233.0  |     |        | mg/Kg   |        | 93        | 90 - 110                       |  |         |
| Lab Sample ID: LCSD 880-   | 87136/3-A  |                |          |      |        |     | С      | lient S | ample  | D: Lat    | o Control                      | Sampl  | e Dup   |
| Matrix: Solid  |            |                |          |      |        |     |        |         |        |           | Prep T                         |  |         |
| Analysis Batch: 87209  |            |                |          |      |        |     |        |         |        |           |                                | ,,   |         |
|  |            |                | Spike    |      | LCSD   | LCS | D      |         |        |           | %Rec                           |  | RPD     |
| Analyte  |            |                | Added    |      | Result | Qua | lifier | Unit    | D      | %Rec      | Limits                         | RPD  | Limit   |
| Chloride   |            |                | 250      |      | 228.4  |     |        | mg/Kg   |        | 91        | 90 - 110                       | 2  | 20      |
| Lab Sample ID: 890-6964-5  | MS         |                |          |      |        |     |        |         |        | lient Sa  | ample ID:                      | BS - 0                                       | 1 (11') |
| Matrix: Solid  |            |                |          |      |        |     |        |         |        |           | Prep T                         |  |         |
| Analysis Batch: 87209  |            |                |          |      |        |     |        |         |        |           | i i cp i                       | <b>,</b> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | orabic  |
| Analysis Batch. 07205  | Sample     | Sample         | Spike    |      | MS     | MS  |        |         |        |           | %Rec                           |  |         |
| Analyte  |            | Qualifier      | Added    |      | Result | -   | lifier | Unit    | D      | %Rec      | Limits                         |  |         |
| Chloride   | 138        |                | 251      |      | 364.0  | Guu |        | mg/Kg   |        | 90        | 90 - 110                       |  |         |
|  |            |                |          |      |        |     |        |         |        |           |                                |  |         |
| Lab Sample ID: 890-6964-5<br>Matrix: Solid                         | INISU      |                |          |      |        |     |        |         | C      | lient Sa  | ample ID:<br>Prep T            |  |         |
| Analysis Batch: 87209  |            |                |          |      |        |     |        |         |        |           |                                | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,      |         |
|  | Sample     | Sample         | Spike    |      | MSD    | MS  | )      |         |        |           | %Rec                           |  | RPD     |
| Analyte  | •          | Qualifier      | Added    |      | Result | -   |        | Unit    | D      | %Rec      | Limits                         | RPD  | Limit   |
| Chloride   | 138        |                | 251      |      | 369.7  |     | -      | mg/Kg   |        | 92        | 90 - 110                       | 2  | 20      |
|  |            |                | 201      |      | 200.1  |     |        |         |        | 02        | 00-110                         | 2  | 20      |

Job ID: 890-6964-1 SDG: Eddy CO NM 5 6 7 8 9 10 11 12 13

# **QC Association Summary**

Client: McNabb Partners Project/Site: RIO STATE #3

# GC VOA

#### Analysis Batch: 87103

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6964-1         | BS - 01 (7')           | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-2         | BS - 01 (8')           | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-2         | BS - 01 (8')           | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-3         | BS - 01 (9')           | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-3         | BS - 01 (9')           | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-4         | BS - 01 (10')          | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-4         | BS - 01 (10')          | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-5         | BS - 01 (11')          | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-6         | BS - 01 (12')          | Total/NA  | Solid  | 8021B  | 87116      |
| MB 880-87116/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 87116      |
| LCS 880-87116/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 87116      |
| LCSD 880-87116/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-1 MS      | BS - 01 (7')           | Total/NA  | Solid  | 8021B  | 87116      |
| 890-6964-1 MSD     | BS - 01 (7')           | Total/NA  | Solid  | 8021B  | 87116      |

#### Prep Batch: 87116

| Lab Sample ID      | Client Sample ID       | Ргер Туре | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6964-1         | BS - 01 (7')           | Total/NA  | Solid  | 5035   |            |
| 890-6964-2         | BS - 01 (8')           | Total/NA  | Solid  | 5035   |            |
| 890-6964-2         | BS - 01 (8')           | Total/NA  | Solid  | 5035   |            |
| 890-6964-3         | BS - 01 (9')           | Total/NA  | Solid  | 5035   |            |
| 890-6964-3         | BS - 01 (9')           | Total/NA  | Solid  | 5035   |            |
| 890-6964-4         | BS - 01 (10')          | Total/NA  | Solid  | 5035   |            |
| 890-6964-4         | BS - 01 (10')          | Total/NA  | Solid  | 5035   |            |
| 890-6964-5         | BS - 01 (11')          | Total/NA  | Solid  | 5035   |            |
| 890-6964-6         | BS - 01 (12')          | Total/NA  | Solid  | 5035   |            |
| MB 880-87116/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-87116/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-87116/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-6964-1 MS      | BS - 01 (7')           | Total/NA  | Solid  | 5035   |            |
| 890-6964-1 MSD     | BS - 01 (7')           | Total/NA  | Solid  | 5035   |            |

#### Analysis Batch: 87249

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-6964-1    | BS - 01 (7')     | Total/NA  | Solid  | Total BTEX |            |
| 890-6964-2    | BS - 01 (8')     | Total/NA  | Solid  | Total BTEX |            |
| 890-6964-3    | BS - 01 (9')     | Total/NA  | Solid  | Total BTEX |            |
| 890-6964-4    | BS - 01 (10')    | Total/NA  | Solid  | Total BTEX |            |
| 890-6964-5    | BS - 01 (11')    | Total/NA  | Solid  | Total BTEX |            |
| 890-6964-6    | BS - 01 (12')    | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

#### Prep Batch: 87078

| Lab Sample ID     | Client Sample ID   | Ргер Туре | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 890-6964-3        | BS - 01 (9')       | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6964-4        | BS - 01 (10')      | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6964-5        | BS - 01 (11')      | Total/NA  | Solid  | 8015NM Prep |            |
| 890-6964-6        | BS - 01 (12')      | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-87078/1-A  | Method Blank       | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-87078/2-A | Lab Control Sample | Total/NA  | Solid  | 8015NM Prep |            |

#### Eurofins Carlsbad

Page 104 of 235

Job ID: 890-6964-1 SDG: Eddy CO NM

Released to Imaging: 9/30/2024 10:20:23 AM

# **QC Association Summary**

Client: McNabb Partners Project/Site: RIO STATE #3

## GC Semi VOA (Continued)

#### Prep Batch: 87078 (Continued)

| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|----------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-87078/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| Prep Batch: 87117    |                        |           |        |             |            |
| Lab Sample ID        | Client Sample ID       | Ргер Туре | Matrix | Method      | Prep Batch |
| 890-6964-1           | BS - 01 (7')           | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-87117/1-A     | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-87117/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-87117/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| Analysis Batch: 871  | 31                     |           |        |             | - 1        |
| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
| 890-6964-3           | BS - 01 (9')           | Total/NA  | Solid  | 8015B NM    | 87078      |
| 890-6964-4           | BS - 01 (10')          | Total/NA  | Solid  | 8015B NM    | 87078      |
| 890-6964-5           | BS - 01 (11')          | Total/NA  | Solid  | 8015B NM    | 87078      |
| 890-6964-6           | BS - 01 (12')          | Total/NA  | Solid  | 8015B NM    | 87078      |
| MB 880-87078/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM    | 87078      |
| LCS 880-87078/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM    | 87078      |
| LCSD 880-87078/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM    | 87078      |
| Analysis Batch: 8713 | 33                     |           |        |             |            |
| Lab Sample ID        | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
| 890-6964-1           | BS - 01 (7')           | Total/NA  | Solid  | 8015B NM    | 87117      |
| MB 880-87117/1-A     | Method Blank           | Total/NA  | Solid  | 8015B NM    | 87117      |
| LCS 880-87117/2-A    | Lab Control Sample     | Total/NA  | Solid  | 8015B NM    | 87117      |
| LCSD 880-87117/3-A   | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM    | 87117      |

#### Analysis Batch: 87265

| Lab Sample ID | Client Sample ID | Ргер Туре | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-6964-1    | BS - 01 (7')     | Total/NA  | Solid  | 8015 NM |            |
| 890-6964-2    | BS - 01 (8')     | Total/NA  | Solid  | 8015 NM |            |
| 890-6964-3    | BS - 01 (9')     | Total/NA  | Solid  | 8015 NM |            |
| 890-6964-4    | BS - 01 (10')    | Total/NA  | Solid  | 8015 NM |            |
| 890-6964-5    | BS - 01 (11')    | Total/NA  | Solid  | 8015 NM |            |
| 890-6964-6    | BS - 01 (12')    | Total/NA  | Solid  | 8015 NM |            |

#### Analysis Batch: 87294

| Lab Sample ID<br>890-6964-2 | Client Sample ID<br>BS - 01 (8') | Prep Type<br>Total/NA | Matrix<br>Solid | Method<br>8015B NM | Prep Batch<br>87359 |
|-----------------------------|----------------------------------|-----------------------|-----------------|--------------------|---------------------|
| MB 880-87359/1-A            | Method Blank                     | Total/NA              | Solid           | 8015B NM           | 87359               |
| LCS 880-87359/2-A           | Lab Control Sample               | Total/NA              | Solid           | 8015B NM           | 87359               |
| LCSD 880-87359/3-A          | Lab Control Sample Dup           | Total/NA              | Solid           | 8015B NM           | 87359               |

#### Prep Batch: 87359

|      | <b>Sample ID</b><br>5964-2 | Client Sample ID<br>BS - 01 (8') | Prep Type<br>Total/NA | Matrix<br>Solid | Method<br>8015NM Prep | Prep Batch |
|------|----------------------------|----------------------------------|-----------------------|-----------------|-----------------------|------------|
| MB 8 | 80-87359/1-A               | Method Blank                     | Total/NA              | Solid           | 8015NM Prep           |            |
| LCS  | 880-87359/2-A              | Lab Control Sample               | Total/NA              | Solid           | 8015NM Prep           |            |
| LCSE | D 880-87359/3-A            | Lab Control Sample Dup           | Total/NA              | Solid           | 8015NM Prep           |            |

**Eurofins Carlsbad** 

Page 105 of 235

Job ID: 890-6964-1 SDG: Eddy CO NM

# **QC Association Summary**

**Client: McNabb Partners** Project/Site: RIO STATE #3 Job ID: 890-6964-1 SDG: Eddy CO NM

# HPLC/IC

#### Leach Batch: 87136

| each Batch: 87136  |                        |           |        |          |            |
|--------------------|------------------------|-----------|--------|----------|------------|
| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
| 890-6964-1         | BS - 01 (7')           | Soluble   | Solid  | DI Leach |            |
| 890-6964-2         | BS - 01 (8')           | Soluble   | Solid  | DI Leach |            |
| 890-6964-3         | BS - 01 (9')           | Soluble   | Solid  | DI Leach |            |
| 890-6964-4         | BS - 01 (10')          | Soluble   | Solid  | DI Leach |            |
| 890-6964-5         | BS - 01 (11')          | Soluble   | Solid  | DI Leach |            |
| 890-6964-6         | BS - 01 (12')          | Soluble   | Solid  | DI Leach |            |
| MB 880-87136/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-87136/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-87136/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-6964-5 MS      | BS - 01 (11')          | Soluble   | Solid  | DI Leach |            |
| 890-6964-5 MSD     | BS - 01 (11')          | Soluble   | Solid  | DI Leach |            |

#### Analysis Batch: 87209

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 890-6964-1         | BS - 01 (7')           | Soluble   | Solid  | 300.0  | 87136      |
| 890-6964-2         | BS - 01 (8')           | Soluble   | Solid  | 300.0  | 87136      |
| 890-6964-3         | BS - 01 (9')           | Soluble   | Solid  | 300.0  | 87136      |
| 890-6964-4         | BS - 01 (10')          | Soluble   | Solid  | 300.0  | 87136      |
| 890-6964-5         | BS - 01 (11')          | Soluble   | Solid  | 300.0  | 87136      |
| 890-6964-6         | BS - 01 (12')          | Soluble   | Solid  | 300.0  | 87136      |
| MB 880-87136/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 87136      |
| LCS 880-87136/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 87136      |
| LCSD 880-87136/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 87136      |
| 890-6964-5 MS      | BS - 01 (11')          | Soluble   | Solid  | 300.0  | 87136      |
| 890-6964-5 MSD     | BS - 01 (11')          | Soluble   | Solid  | 300.0  | 87136      |

Page 106 of 235

Initial

Amount

4.95 g

5 mL

10.01 g

1 uL

4.98 g

50 mL

Batch

87116

87103

87249

87265

87117

87133

87136

87209

Number

Final

Amount

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Dil

1

1

1

1

1

Factor

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

#### Client Sample ID: BS - 01 (7') Date Collected: 07/30/24 08:30 Date Received: 07/30/24 11:11

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Leach

Analysis

Prep

Batch

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

Job ID: 890-6964-1 SDG: Eddy CO NM

# Lab Sample ID: 890-6964-1

Analyst

MNR

Prepared

or Analyzed

07/31/24 09:48

07/31/24 11:45 MNR

07/31/24 11:45 SM

07/31/24 19:47 SM

07/31/24 10:01 EL

07/31/24 19:47 TKC

07/31/24 11:12 SA

08/02/24 05:42 SMC

Matrix: Solid

Lab

EET MID

#### Lab Sample ID: 890-6964-2 Matrix: Solid

Lab Sample ID: 890-6964-3

Matrix: Solid

Client Sample ID: BS - 01 (8') Date Collected: 07/30/24 08:45 Date Received: 07/30/24 11:11

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.98 g  | 5 mL   | 87116  | 07/31/24 09:48 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 87103  | 07/31/24 12:06 | MNR     | EET MID |
| Total/NA  | Prep     | 5035        |     |        | 4.98 g  | 5 mL   | 87116  | 07/31/24 14:43 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 25     | 5 mL    | 5 mL   | 87103  | 07/31/24 19:28 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 87249  | 07/31/24 19:28 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 87265  | 08/02/24 15:39 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.04 g | 10 mL  | 87359  | 08/02/24 09:59 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 87294  | 08/02/24 15:39 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 5.02 g  | 50 mL  | 87136  | 07/31/24 11:12 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 87209  | 08/02/24 05:50 | SMC     | EET MID |

#### Client Sample ID: BS - 01 (9') Date Collected: 07/30/24 09:00 Date Received: 07/30/24 11:11

| _         | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.01 g  | 5 mL   | 87116  | 07/31/24 09:48 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 87103  | 07/31/24 12:27 | MNR     | EET MID |
| Total/NA  | Prep     | 5035        |     |        | 5.02 g  | 5 mL   | 87116  | 07/31/24 14:43 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 25     | 5 mL    | 5 mL   | 87103  | 07/31/24 19:49 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 87249  | 07/31/24 19:49 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 87265  | 07/31/24 19:16 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.05 g | 10 mL  | 87078  | 07/30/24 14:57 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 87131  | 07/31/24 19:16 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL  | 87136  | 07/31/24 11:12 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 87209  | 08/02/24 05:58 | SMC     | EET MID |

**Eurofins Carlsbad** 

**Released to Imaging: 9/30/2024 10:20:23 AM** 

Initial

Amount

5.02 g

5 mL

5.03 q

5 mL

10.07 g

1 uL

5.01 g

50 mL

Final

Amount

5 mL

5 mL

5 mL

5 mL

10 mL

1 uL

50 mL

50 mL

Batch

87116

87103

87116

87103

87249

87265

87078

87131

87136

87209

Number

Dil

1

25

1

1

1

1

Factor

Run

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

#### Client Sample ID: BS - 01 (10') Date Collected: 07/30/24 09:15 Date Received: 07/30/24 11:11

Batch

Туре

Prep

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Client Sample ID: BS - 01 (11') Date Collected: 07/30/24 09:30

Date Received: 07/30/24 11:11

Prep

Batch

5035

8021B

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

Job ID: 890-6964-1 SDG: Eddy CO NM

# Lab Sample ID: 890-6964-4

Analyst

MNR

Prepared

or Analyzed

07/31/24 09:48

07/31/24 12:47 MNR

07/31/24 14:43 MNR

07/31/24 20:09 MNR

07/31/24 20:09 SM

07/31/24 19:32 SM

07/30/24 14:57 EL

07/31/24 19:32 TKC

07/31/24 11:12 SA

08/02/24 06:06 SMC

Matrix: Solid

Lab

EET MID

# 9 10

# Lab Sample ID: 890-6964-5

Lab Sample ID: 890-6964-6

Matrix: Solid

Matrix: Solid

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 5.03 g  | 5 mL   | 87116  | 07/31/24 09:48 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 87103  | 07/31/24 13:08 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 87249  | 07/31/24 13:08 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 87265  | 07/31/24 19:47 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.06 g | 10 mL  | 87078  | 07/30/24 14:57 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 87131  | 07/31/24 19:47 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.98 g  | 50 mL  | 87136  | 07/31/24 11:12 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 87209  | 08/02/24 06:14 | SMC     | EET MID |

#### Client Sample ID: BS - 01 (12') Date Collected: 07/30/24 09:45 Date Received: 07/30/24 11:11

|           | Batch    | Batch       |     | Dil    | Initial | Final  | Batch  | Prepared       |         |         |
|-----------|----------|-------------|-----|--------|---------|--------|--------|----------------|---------|---------|
| Prep Type | Туре     | Method      | Run | Factor | Amount  | Amount | Number | or Analyzed    | Analyst | Lab     |
| Total/NA  | Prep     | 5035        |     |        | 4.95 g  | 5 mL   | 87116  | 07/31/24 09:48 | MNR     | EET MID |
| Total/NA  | Analysis | 8021B       |     | 1      | 5 mL    | 5 mL   | 87103  | 07/31/24 13:29 | MNR     | EET MID |
| Total/NA  | Analysis | Total BTEX  |     | 1      |         |        | 87249  | 07/31/24 13:29 | SM      | EET MID |
| Total/NA  | Analysis | 8015 NM     |     | 1      |         |        | 87265  | 07/31/24 20:18 | SM      | EET MID |
| Total/NA  | Prep     | 8015NM Prep |     |        | 10.01 g | 10 mL  | 87078  | 07/30/24 14:57 | EL      | EET MID |
| Total/NA  | Analysis | 8015B NM    |     | 1      | 1 uL    | 1 uL   | 87131  | 07/31/24 20:18 | TKC     | EET MID |
| Soluble   | Leach    | DI Leach    |     |        | 4.96 g  | 50 mL  | 87136  | 07/31/24 11:12 | SA      | EET MID |
| Soluble   | Analysis | 300.0       |     | 1      | 50 mL   | 50 mL  | 87209  | 08/02/24 06:38 | SMC     | EET MID |

#### Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

**Accreditation/Certification Summary** 

Client: McNabb Partners Project/Site: RIO STATE #3 Job ID: 890-6964-1 SDG: Eddy CO NM

## Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| thority                                 | Program                                      | 1                       | Identification Number                 | Expiration Date                     |
|---|--|-------------------------|---------------------------------------|-------------------------------------|
| as                                      | NELAP  |                         | T104704400                            | 06-30-25                            |
| The following analyte                   | are included in this report,                 | but the laboratory is r | not certified by the governing author | ity. This list may include analytes |
| for which the agency                    | loes not offer certification.                |                         |                                       |                                     |
| for which the agency<br>Analysis Method | loes not offer certification.<br>Prep Method | Matrix                  | Analyte                               |                                     |
| 0,                                      |  | Matrix<br>Solid         | Analyte<br>Total TPH                  |                                     |

**Eurofins Carlsbad** 

10

Client: McNabb Partners Project/Site: RIO STATE #3 Job ID: 890-6964-1 SDG: Eddy CO NM

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | EET MID    |
| Total BTEX  | Total BTEX Calculation             | TAL SOP  | EET MID    |
| 8015 NM     | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | EET MID    |
| 300.0       | Anions, Ion Chromatography         | EPA      | EET MID    |
| 5035        | Closed System Purge and Trap       | SW846    | EET MID    |
| 8015NM Prep | Microextraction                    | SW846    | EET MID    |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | EET MID    |

#### **Protocol References:**

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## **Sample Summary**

Client: McNabb Partners Project/Site: RIO STATE #3 Job ID: 890-6964-1 SDG: Eddy CO NM

| ab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |  |
|--------------|------------------|--------|----------------|----------------|-------|--|
| 90-6964-1    | BS - 01 (7')     | Solid  | 07/30/24 08:30 | 07/30/24 11:11 | 7'    |  |
| 90-6964-2    | BS - 01 (8')     | Solid  | 07/30/24 08:45 | 07/30/24 11:11 | 8'    |  |
| 90-6964-3    | BS - 01 (9')     | Solid  | 07/30/24 09:00 | 07/30/24 11:11 | 9'    |  |
| 90-6964-4    | BS - 01 (10')    | Solid  | 07/30/24 09:15 | 07/30/24 11:11 | 10'   |  |
| 90-6964-5    | BS - 01 (11')    | Solid  | 07/30/24 09:30 | 07/30/24 11:11 | 11'   |  |
| 90-6964-6    | BS - 01 (12')    | Solid  | 07/30/24 09:45 | 07/30/24 11:11 | 12'   |  |
|              |                  |        |                |                |       |  |
|              |                  |        |                |                |       |  |
|              |                  |        |                |                |       |  |
|              |                  |        |                |                |       |  |
|              |                  |        |                |                |       |  |
|              |                  |        |                |                |       |  |
|              |                  |        |                |                |       |  |
|              |                  |        |                |                |       |  |

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**Environment Testing** 

Chain of Custody

Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Little Rock, AR (501) 224-5060

Work Order No:

| Page / Vork Order Comments / Program: UST/PST   PRP   Brownfields   RRC   \$ |
|--|
|--|

Bill to: (if different)

Vira norol

L'ALMIC

Project Manager:

Released to Imaging: 9/30/2024 10:20:23 AM

| Company Name: MC (NUDD P GULAURS COMPANY Name: MC NODO 10044404  | Program: UST/PST 🗌 PRP Brownfields 🗌 RRC 🗌 Superfund 🗍  |
|--|---|
| 5014 W Carlsbad Huld   | State of Project:   |
| BZIP HODOS NIM 28240   | Reporting: Level II Clevel II PST/UST TTRRP C Level N   |
| 917-497-6890 Email.di  | Deliverables: EDD 🗌 ADaPT 🔲 Other:  |
| pun  | ANALYSIS REQUEST Preservative Codes   |
| sr. ,  | None: NO DI Water: H <sub>2</sub> O   |
| Ealdy C  | 5   |
| ler's Name: DIMITY WRAWOUT TAT starts the day  |   |
|  | H2S04: H2 NaOH: Na  |
| Blank: Yes No Wet Ice: Yes No B  |   |
| act: Yes No Thermometer ID: IN/NOC P   | 890-6964 Chain of Custody NaHSO4: NABIS   |
| Yes No N/A Correction Factor: -0.2   |   |
| Sample Custody Seals: Yes No N/A Jemperature Reading: 5. 4   | Zn Acetate+NaOH: Zn   |
| Total Containers:  | NaOH+Ascorbic Acid: SAPC  |
| Time   | Sample Comments   |
| ampled Sampled Sampled   |   |
| RSOI (71) C 7/30/24/0830 7 ( Grab 1 × × ×  |   |
| -8   |   |
| 0060 (16) 10-50  |   |
| 8C-Di (10()   0915 10'   1   1   |   |
| S-01 (111) 10330 11  |   |
| BS-OI FIZI) V V OG451124 V V V V V   |   |
|  |   |
|  |   |
|  |   |
|  |   |
| Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu  | lo Ni K Se  |
| Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb M  | Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631/245.1/7470 /7471   |
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofina Xenco, its affiliates and subcontractors. It assigns standard terms and conditions<br>of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or axpenses incurred by the client if such tesses are due to circumstances beyond the control<br>of Eurofins Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotisted. | actore. It easigns standard terms and conditions<br>sees are due to circumstances beyond the control<br>te terms will be enforced unless previously negotiated. |
| Relinquished by: (Signature)   | ignature) Received by: (Signature) Date/Time  |
| V VV VVV   |   |
| -  |   |
|  |   |
| 69   |   |

5

08/25/2020 Rev. **Revised Date** 

13

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Job Number: 890-6964-1 SDG Number: Eddy CO NM List Source: Eurofins Carlsbad

## Login Sample Receipt Checklist

Client: McNabb Partners

#### Login Number: 6964 List Number: 1 Creator: Bruns, Shannon

| Question   | Answer | Comment                             |
|--|--------|-------------------------------------|
| The cooler's custody seal, if present, is intact.                                | True   |                                     |
| Sample custody seals, if present, are intact.                                    | True   |                                     |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |                                     |
| Samples were received on ice.  | True   |                                     |
| Cooler Temperature is acceptable.  | True   |                                     |
| Cooler Temperature is recorded.  | True   |                                     |
| COC is present   | True   |                                     |
| COC is filled out in ink and legible.  | True   |                                     |
| COC is filled out with all pertinent information                                 | True   |                                     |
| Is the Field Sampler's name present on COC?                                      | True   |                                     |
| There are no discrepancies between the containers received and the COC.          | True   |                                     |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |                                     |
| Sample containers have legible labels.   | True   |                                     |
| Containers are not broken or leaking.  | True   |                                     |
| Sample collection date/times are provided.                                       | True   |                                     |
| Appropriate sample containers are used.  | N/A    | Refer to Job Narrative for details. |
| Sample bottles are completely filled.  | True   |                                     |
| Sample Preservation Verified.  | N/A    |                                     |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |                                     |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |                                     |

14

Job Number: 890-6964-1 SDG Number: Eddy CO NM

List Source: Eurofins Midland

List Creation: 07/31/24 08:24 AM

## Login Sample Receipt Checklist

Client: McNabb Partners

#### Login Number: 6964 List Number: 2 Creator: Vasquez, Julisa

| Question   | Answer | Comment |
|--|--------|---------|
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present   | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information                                 | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is               | N/A    |         |

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14



September 20, 2024

DIMITRY NIKANOROV

MC NABB SERVICES

P. O. BOX 5753

HOBBS, NM 88240

RE: RIO STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 09/18/24 13:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: BS - 08 5' (H245673-01)

| BTEX 8021B                           | mg/    | /kg             | Analyze    | d By: JH     |      |            |               |        |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024 | ND           | 2.09 | 105        | 2.00          | 0.0246 |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024 | ND           | 1.95 | 97.3       | 2.00          | 0.246  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024 | ND           | 1.96 | 97.8       | 2.00          | 0.872  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024 | ND           | 5.82 | 97.0       | 6.00          | 0.340  |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024 | ND           |      |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 94.5   | % 71.5-13       | 4          |              |      |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | d By: HM     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | 16.0   | 16.0            | 09/19/2024 | ND           | 400  | 100        | 400           | 3.92   |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024 | ND           | 202  | 101        | 200           | 0.914  |           |
| DRO >C10-C28*                        | 50.9   | 10.0            | 09/19/2024 | ND           | 189  | 94.6       | 200           | 1.66   |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024 | ND           |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 65.3   | % 48.2-13       | 4          |              |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 71.6   | % 49.1-14       | 8          |              |      |            |               |        |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: BS - 09 5' (H245673-02)

| BTEX 8021B                           | mg/    | /kg             | Analyze    | d By: JH     |      |            |               |        |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024 | ND           | 2.09 | 105        | 2.00          | 0.0246 |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024 | ND           | 1.95 | 97.3       | 2.00          | 0.246  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024 | ND           | 1.96 | 97.8       | 2.00          | 0.872  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024 | ND           | 5.82 | 97.0       | 6.00          | 0.340  |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024 | ND           |      |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 94.3   | % 71.5-13       | 4          |              |      |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | d By: HM     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | 32.0   | 16.0            | 09/19/2024 | ND           | 400  | 100        | 400           | 3.92   |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024 | ND           | 202  | 101        | 200           | 0.914  |           |
| DRO >C10-C28*                        | 36.1   | 10.0            | 09/19/2024 | ND           | 189  | 94.6       | 200           | 1.66   |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024 | ND           |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 76.3   | % 48.2-13       | 4          |              |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 83.6   | % 49.1-14       | 8          |              |      |            |               |        |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: BS - 01 12' (H245673-03)

| BTEX 8021B                           | mg/    | ′kg             | Analyze    | d By: JH     |      |            |               |        |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifie  |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024 | ND           | 2.09 | 105        | 2.00          | 0.0246 |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024 | ND           | 1.95 | 97.3       | 2.00          | 0.246  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024 | ND           | 1.96 | 97.8       | 2.00          | 0.872  | GC-NC     |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024 | ND           | 5.82 | 97.0       | 6.00          | 0.340  |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024 | ND           |      |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 94.9   | % 71.5-13       | 4          |              |      |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: HM     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | 32.0   | 16.0            | 09/19/2024 | ND           | 400  | 100        | 400           | 3.92   |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze    | d By: MS     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024 | ND           | 202  | 101        | 200           | 0.914  |           |
| DRO >C10-C28*                        | 12.0   | 10.0            | 09/19/2024 | ND           | 189  | 94.6       | 200           | 1.66   |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024 | ND           |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 80.0   | % 48.2-13       | 4          |              |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 89.4   | % 49.1-14       | 8          |              |      |            |               |        |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: WS - 08A 0-2' (H245673-04)

| BTEX 8021B                           | mg/    | ′kg             | Analyze         | d By: JH     |      |            |               |        |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifie  |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.09 | 105        | 2.00          | 0.0246 |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 1.95 | 97.3       | 2.00          | 0.246  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024      | ND           | 1.96 | 97.8       | 2.00          | 0.872  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024      | ND           | 5.82 | 97.0       | 6.00          | 0.340  |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024      | ND           |      |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 92.8   | % 71.5-13       | 4               |              |      |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyzed By: HM |              |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | 48.0   | 16.0            | 09/19/2024      | ND           | 400  | 100        | 400           | 3.92   |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze         | d By: MS     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024      | ND           | 202  | 101        | 200           | 0.914  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 09/19/2024      | ND           | 189  | 94.6       | 200           | 1.66   |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024      | ND           |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 86.0   | % 48.2-13       | 4               |              |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 95.3   | % 49.1-14       | 8               |              |      |            |               |        |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: WS - 08A 2-5' (H245673-05)

| BTEX 8021B                           | mg/    | ′kg             | Analyze         | d By: JH     |      |            |               |        |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.09 | 105        | 2.00          | 0.0246 |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 1.95 | 97.3       | 2.00          | 0.246  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024      | ND           | 1.96 | 97.8       | 2.00          | 0.872  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024      | ND           | 5.82 | 97.0       | 6.00          | 0.340  |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024      | ND           |      |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 93.0   | % 71.5-13       | 4               |              |      |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyzed By: HM |              |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | 16.0   | 16.0            | 09/19/2024      | ND           | 400  | 100        | 400           | 3.92   |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze         | d By: MS     |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024      | ND           | 202  | 101        | 200           | 0.914  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 09/19/2024      | ND           | 189  | 94.6       | 200           | 1.66   |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024      | ND           |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 84.7   | % 48.2-13       | 4               |              |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 94.4   | % 49.1-14       | 8               |              |      |            |               |        |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: WS - 09A 0-2' (H245673-06)

| BTEX 8021B                           | mg/    | /kg             | Analyze    | d By: JH        |      |            |               |        |           |
|--------------------------------------|--------|-----------------|------------|-----------------|------|------------|---------------|--------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024 | ND              | 2.09 | 105        | 2.00          | 0.0246 |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024 | ND              | 1.95 | 97.3       | 2.00          | 0.246  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024 | ND              | 1.96 | 97.8       | 2.00          | 0.872  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024 | ND              | 5.82 | 97.0       | 6.00          | 0.340  |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024 | ND              |      |            |               |        |           |
| Surrogate: 4-Bromofluorobenzene (PID | 93.8   | % 71.5-13       | 4          |                 |      |            |               |        |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | Analyzed By: HM |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| Chloride                             | 64.0   | 16.0            | 09/19/2024 | ND              | 400  | 100        | 400           | 3.92   |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS        |      |            |               |        |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD    | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024 | ND              | 202  | 101        | 200           | 0.914  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 09/19/2024 | ND              | 189  | 94.6       | 200           | 1.66   |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024 | ND              |      |            |               |        |           |
| Surrogate: 1-Chlorooctane            | 88.1   | % 48.2-13       | 4          |                 |      |            |               |        |           |
| Surrogate: 1-Chlorooctadecane        | 98.0   | % 49.1-14       | 8          |                 |      |            |               |        |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: WS - 09A 2-5' (H245673-07)

| BTEX 8021B                           | mg/    | ′kg             | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.32 | 116        | 2.00          | 1.24  |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.19 | 109        | 2.00          | 0.761 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024      | ND           | 2.18 | 109        | 2.00          | 0.183 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024      | ND           | 6.59 | 110        | 6.00          | 0.412 |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 105 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyzed By: HM |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 16.0   | 16.0            | 09/19/2024      | ND           | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze         | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024      | ND           | 198  | 99.2       | 200           | 0.771 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 09/19/2024      | ND           | 200  | 100        | 200           | 0.725 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 98.4   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 113 9  | % 49.1-14       | 8               |              |      |            |               |       |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: WS - 01 6-9' (H245673-08)

| BTEX 8021B                           | mg/    | /kg             | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.32 | 116        | 2.00          | 1.24  |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.19 | 109        | 2.00          | 0.761 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024      | ND           | 2.18 | 109        | 2.00          | 0.183 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024      | ND           | 6.59 | 110        | 6.00          | 0.412 |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 106 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyzed By: HM |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 16.0   | 16.0            | 09/19/2024      | ND           | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | /kg             | Analyze         | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024      | ND           | 198  | 99.2       | 200           | 0.771 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 09/19/2024      | ND           | 200  | 100        | 200           | 0.725 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 97.6   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 114 9  | % 49.1-14       | 8               |              |      |            |               |       |           |

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mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: WS - 01 9-12' (H245673-09)

| BTEX 8021B                           | mg/    | /kg             | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.32 | 116        | 2.00          | 1.24  |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.19 | 109        | 2.00          | 0.761 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024      | ND           | 2.18 | 109        | 2.00          | 0.183 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024      | ND           | 6.59 | 110        | 6.00          | 0.412 |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 110 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyzed By: HM |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 64.0   | 16.0            | 09/19/2024      | ND           | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | /kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024      | ND           | 198  | 99.2       | 200           | 0.771 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 09/19/2024      | ND           | 200  | 100        | 200           | 0.725 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 101    | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 118 9  | % 49.1-14       | 8               |              |      |            |               |       |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: WS - 07 6-9' (H245673-10)

| BTEX 8021B                           | mg/    | /kg             | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifie  |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.32 | 116        | 2.00          | 1.24  |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.19 | 109        | 2.00          | 0.761 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024      | ND           | 2.18 | 109        | 2.00          | 0.183 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024      | ND           | 6.59 | 110        | 6.00          | 0.412 |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 106    | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyzed By: HM |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 16.0   | 16.0            | 09/19/2024      | ND           | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | /kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024      | ND           | 198  | 99.2       | 200           | 0.771 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 09/19/2024      | ND           | 200  | 100        | 200           | 0.725 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 79.4   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 94.5   | % 49.1-14       | 8               |              |      |            |               |       |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



MC NABB SERVICES DIMITRY NIKANOROV P. O. BOX 5753 HOBBS NM, 88240 Fax To: (575) 391-8484

| Received:         | 09/18/2024                     | Sampling Date:      | 09/18/2024       |
|-------------------|--------------------------------|---------------------|------------------|
| Reported:         | 09/20/2024                     | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3                   | Sampling Condition: | Cool & Intact    |
| Project Number:   | 20220103-MURCHISON - RIOSTATE3 | Sample Received By: | Shalyn Rodriguez |
| Project Location: | EDDY CO., NM                   |                     |                  |

#### Sample ID: WS - 07 9-12' (H245673-11)

| BTEX 8021B                           | mg/    | /kg             | Analyze         | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.32 | 116        | 2.00          | 1.24  |           |
| Toluene*                             | <0.050 | 0.050           | 09/19/2024      | ND           | 2.19 | 109        | 2.00          | 0.761 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 09/19/2024      | ND           | 2.18 | 109        | 2.00          | 0.183 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 09/19/2024      | ND           | 6.59 | 110        | 6.00          | 0.412 |           |
| Total BTEX                           | <0.300 | 0.300           | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 107 9  | % 71.5-13       | 4               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyzed By: HM |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 16.0   | 16.0            | 09/19/2024      | ND           | 400  | 100        | 400           | 3.92  |           |
| TPH 8015M                            | mg/    | /kg             | Analyze         | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 09/19/2024      | ND           | 198  | 99.2       | 200           | 0.771 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 09/19/2024      | ND           | 200  | 100        | 200           | 0.725 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 09/19/2024      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 94.3   | % 48.2-13       | 4               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 112 9  | % 49.1-14       | 8               |              |      |            |               |       |           |

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

| GC-NC | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND. |
|-------|---|
| ND    | Analyte NOT DETECTED at or above the reporting limit  |
| RPD   | Relative Percent Difference   |
| **    | Samples not received at proper temperature of 6°C or below.   |
| ***   | Insufficient time to reach temperature.   |
| -     | Chloride by SM4500Cl-B does not require samples be received at or below 6°C   |
|       | Samples reported on an as received basis (wet) unless otherwise noted on report   |

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#### \*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

## Received by OCD: 9/26/2024 12:55:51 PM

| Relinquished By:<br>Delivered By: (Circle One)<br>Sampler - UPS - Bus - Oti | analyses. All claims including fits<br>samice. In no event shall Cardina<br>affinites or supconserv., while out<br>Relinquished Sy:   |                           |        |        |                             | Lab I.D.   | FOR LAB USE ONLY | Project Location:<br>Sampler Name: | Project Name: Z         | Project #:     | Phone #:     | Address: Un-FIK          | 2                                    | Company Name: Mc Napp Part trees | -  |
|---|---|---------------------------|--------|--------|-----------------------------|--|------------------|------------------------------------|-------------------------|----------------|--------------|--------------------------|--------------------------------------|----------------------------------|--|
| her   | ne for negligence and any oth<br>i be liable for incidental or con<br>of or related to the performant   | 10-01<br>10-21<br>10-21   | NS-09A | NS-08A | BS-09                       | Sample I.D.  |                  | 24                                 | 2010220                 |                |              |                          | mitry                                | Mchapppa                         | 01 East Marland<br>(575) 393-2326                                      |
| Time:<br>Date:<br>Time:<br>Observed Temp. %                                 | er cause whatsoever shall be de<br>sequentiel darmages, including v<br>soor of services hereunder by Ce<br>Category Category Cate | 6-71++<br>9-12ft<br>6-9Ft | 0-2Ft  | 2-5H   | 5F1                         |  | 1000             | et s                               | s-murchiasn             | Project Owner: | Fax #:       | Chata                    | Nikanora                             | (tnews                           | 101 East Marland, Hobbs, NM 88240<br>(575) 393-2326 FAX (575) 393-2476 |
| Received By: AVUCY<br>Sample Condition                                      | remed walved unless made in writing and neces<br>afford limitation, business interruptions, teas of<br>distal, regardless of whether such claim a base<br>Received By:  | N N N                     |        |        |                             | (G)RAB OR (C)OMP<br># CONTAINERS<br>GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL | MATRIX           |                                    | Murchidon - Ria State 3 | а              | cip.         | 7                        |                                      |                                  | 240<br>476   |
| Holition CHECKED BY:<br>ct CHECKED BY:<br>ct CHECKED BY:                    | ved by Cardinal wit<br>use, or loss of pro-<br>dn any of the  |                           |        |        | 81/F0 ×                     | SLUDGE<br>OTHER :<br>ACID/BASE:<br>ICE / COOL<br>OTHER :                     | PRESERV.         | Phone #:                           | State: Zip:             | City:          | Address:     | Company:///WChizon.Di/46 | P.O. #: Lozzoloz-workinisan-phis sta | BILL 1                           |  |
| REMARKS:<br>Chris CM Chabbp<br>Turnaround Time:<br>                         | after completion of the app<br>by clear, its subsidiaries,<br>of resource or otherwise.<br>Verbal Result:<br>All Descrifts and  | 10:46 V                   | 22:01  | 10:03  | 4:41                        | TIME   | SAMPLING         |                                    |                         |                | an united to | ison Di 14608            | rchisan-puistars                     | 10                               |  |
| The state   | sicable   | e                         |        |        | $\frac{-\lambda}{-\lambda}$ | Chloride<br>TPH (GH  |                  | DR                                 | 20-                     | -M             | Ro           |                          | -                                    |                                  |  |
| Standard Bacteria   | es I No   | <                         |        |        | _×                          | TPH (GH<br>ISTEX ()  | Ba               | ze                                 | nc                      | >              |              |                          |                                      |                                  |  |
| Bacteria (only<br>Cool intact   | Add'l Phone #:  |                           |        |        |                             |  |                  |                                    |                         |                |              |                          |                                      | ANALYSIS RE                      |  |
| ess.  |   |                           |        |        |                             |  |                  |                                    |                         |                |              |                          |                                      | REQUEST                          |  |

.

## Page 128 of 235

## Received by OCD: 9/26/2024 12:55:51 PM

| Relinquished By:<br>Delivered By: (Circle One)<br>Sampler - UPS - Bus - Other:                   | PLEASE NOTE: Liability and<br>aniayees. All claims including<br>sanvice. In no event shall Card<br>affiliates or succonsci., -vising<br>Relinquished Sy:  | 1           | Lab I.D.<br>propieran                              | FOR LAB USE ONLY  | Project Location: No | Project Name: | Project #:     | Phone #: | City:                           | Address: 0                | Project Manag                         | Company Nam                   |  |    |
|--|---|-------------|--|-------------------|----------------------|---------------|----------------|----------|---------------------------------|---------------------------|---------------------------------------|-------------------------------|--|----|
| cle One)<br>us - Other:  | Dranges, Castinal's liability and client<br>these for negligence and any other cas<br>linal the liable for incidental or consequency<br>out of or related to the performance of<br>the second second second second second second second<br>second second second second second second second second second<br>second second second<br>second second | to-SM       | Sample I.D.  | Christopher       |                      |               | PI             | Fa       |                                 | on-File "                 | Project Manager: Dimtry Nikanorov     | Company Name: MCNabb Partners | 101 East Marland, Hobbs, NM 88240<br>(575) 393-2326 FAX (575) 393-2476 |    |
| Date: R<br>Time:<br>Chserved Temp. °CS<br>Corrected Temp. °CS                                    | chasive remady for any<br>inhalscovers shall be dee<br>I damagee, including w<br>ices herewarder by Cam<br>ices Pareaucher by Cam<br>###??????????????????????????????????  | 9-12Ft      |  | ur Turnev         | ~                    | chison-       | Project Owner: | Fax #:   | State:                          |                           | Norar                                 | icers                         | bs, NM 88  |    |
| Received By  | the only clear and water to shall be deemed water by the only of the other o                                  | •           | (G)RAB OR (C)OMP.<br># CONTAINERS                  | ner               |                      | fio Sta       | ne             |          | Zip:                            |                           |                                       |                               | 8240<br>24,76  | i  |
| No tes   | r basied in made in winness intern the test in the made in the made in the made is the made is the test in the test is the tes                                  |             | GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE | MATRIX            |                      | ute3          |                |          |                                 |                           |                                       |                               |  |    |
| Condition CHEC   | of in contract or tool, shall be livinited to live as<br>in writing and necessed by Cantinal within 30<br>amorphone, loss of each or loss of profiles inc<br>anoth claim is based   | ×           | OTHER :<br>ACID/BASE:<br>ICE / COOL                | Fax #:<br>PRESERV | Phone #:             | State:        | City:          | Address: | Attn: Pinu                      | Company:                  | P.O. #:2.2                            | -                             |  |    |
| CHECKED BY:  | all be lianited to the annount pa<br>by Cardinali within 30 days aft<br>to roots of profits incurred by<br>   | 04/18 10:53 | DATE   |                   |                      | Zip:          |                | •        | Attn: Pinuting Concrebbpentiuse | Company Murchison Oil Com | P.O. # 20220105 - marchigen - Rosiets | BILL TO                       |  |    |
| REMARKS:<br>Civert's Quincure by<br>Turnaround Time:<br>————————————————————————————————————     | ni paid by the ellent for the<br>re after completion of the applicable<br>of by chert, is subclaimen,<br>and reasons or otherweise.<br>Yerbail Result:<br>All Results are emailed. Please provide Email address:  | 10:53       | TIME   | SAMPLING          |                      |               |                |          | Sometimes                       | ON & Crows                | ion- Rosight                          |                               |  |    |
| Time:  | appicable<br>a,<br>are emailed. F   | · ×         | Chlorite<br>TPH/GR                                 | Dt                | DP                   | 20            | 41             | AR       | x<br>()                         |                           | -                                     |                               |  |    |
| Standard   | Please pro  | ×           | TPH (GR<br>BTEX (                                  | BUN               | IZE                  | me            | ;)             | 1        | .~1                             |                           | _                                     |                               |  | э. |
|  | Add'l Phone #:<br>vide Email address  |             |  |                   |                      |               |                |          | _                               |                           | -                                     | ANA                           |  |    |
| Bacteria (only) Sample Condition<br>Cool Intact Observed Temp<br>Ves Yes<br>No No Corrected Temp | hone #:<br>address:   |             |  |                   |                      |               |                |          |                                 |                           |                                       | ANALYSIS R                    |  |    |
| S a  | 1.  |             |  |                   |                      |               |                |          |                                 |                           |                                       | REQUEST                       |  |    |
| mple Condition<br>Observed Temp. °C  |   |             |  |                   |                      |               |                |          |                                 |                           | _                                     |                               |  |    |
| ဂိ ဂိ  |   |             |  |                   |                      |               |                |          |                                 |                           |                                       |                               |  |    |

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Page 15 of 15

# **Appendix C**

**Remediation Plan** 





# Site Assessment and Remediation Work Plan

Murchison Oil & Gas, LLC Rio State #3 Eddy County, New Mexico Unit Letter "D", Section 36, Township 18 South, Range 24 East Latitude 32.708155 North, Longitude 104.546172 West NMOCD Incident # nAPP2202454641

Prepared For:

Murchison Oil & Gas 5325 Sierra Vista Carlsbad, NM 88230

Prepared By:

Hungry Horse, LLC 4024 Plains Hwy Lovington, NM 88260 Office: (575) 393-3386

June 2024

Bradley Wells

Bradley Wells Project Manager bwells@hungry-horse.com

Daniel Dominguez Environmental Manager ddominguez@hungry-horse.com

## **Table Of Contents**

| Background                                  | 1 |
|---|---|
| NMOCD Site Classification                   | 1 |
| Initial Site Assessment and Delineation     | 2 |
| Proposed Remediation Activities             | 2 |
| Sampling Plan                               | 3 |
| Restoration, Reclamation, and Re-Vegetation | 3 |
| Limitations                                 | 3 |
| Distribution                                | 4 |

## **Figures**

Figure 1 – Topographic Map Figure 2 – OSE POD Locations Map Figure 3 – USGS Well Locations Map Figure 4 – January 19,2022 & February 7, 2023 Sample Map Figure 5 – Delineation Sample Map

## Tables

Table 1 – Summary of Soil Sample Laboratory Analytical Results

## Attachments

Attachment I – Karst, Wetland, and Soil Maps Attachment II – Depth to Groundwater Attachment III – Field Data Attachment IV – Laboratory Analytical Results



The following *Site Assessment and Remediation Work Plan* serves as a condensed update on proposed reclamation activities at the afore referenced Site.

## **Background:**

The site is located in Unit Letter D (NW/NW), Section 36, Township 18 South, Range 24 East, approximately seventeen miles Southwest of Artesia, in Eddy County, New Mexico. The property is located on private land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred at a load line on an active well pad; Latitude 32.708155 North, Longitude 104.546172 West. The NMOCD Form C-141 indicated that on January 3, 2022 approximately 4.64 bbls of produced water and 68.44 bbls condensate were released when a load line valve froze and burst. A crew was dispatched to the release site and the valve was repaired. Approximately 11.6 bbls were recovered. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Permitting Portal.

## **NMOCD Site Classification:**

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a Karst designated area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 2 and 3.

Three water wells are located within a half mile of the release area with depth to groundwater ranging from 364' to 379.17' bgs. However, as the site is located in a Karst designated area, the site will be remediated according to the strictest NMOCD Closure Criteria Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

| Depth to<br>Groundwater | Constituent           | Method                            | Limit     |
|-------------------------|-----------------------|-----------------------------------|-----------|
|                         | Chloride              | EPA 300.0 or SM4500 CLB           | 600 mg/kg |
| ۲ <b>.</b><br>۲.        | TPH (GRO + DRO + MRO) | EPA SW-846 Method 8015M Ext       | 100 mg/kg |
| <50'                    | BTEX                  | EPA SW-846 Methods 8021B or 8260B | 50 mg/kg  |
|                         | Benzene               | EPA SW-846 Methods 8021B or 8260B | 10 mg/kg  |

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of remediation. Web Soil Survey indicates the area is located in the Upton-Reagan association comprised of gravelly loam soils with 0 to 9 percent slopes. As the release occurred on an active well pad, no seeding will be required. Karst, Wetland, and Soil Maps are provided as Attachment I.

## **Initial Site Assessment and Delineation:**

On January 19, 2022, RT Hicks Consultants, Ltd. conducted an initial site assessment and sampling activities of the release area. Based on these sampling activities, eighteen representative soil samples were selected for laboratory analysis. Soil samples SSA1 through SSA6, as well as a Background sample, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in only three of the submitted samples, BG at 0-4' and 4.2' bgs and SSA3 at 4.2 bgs. The remaining soil samples all exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On February 7, 2023, RT Hicks Consultants, Ltd. conducted additional sampling activities in and around the release area. Based on these sampling activities, twelve representative soil samples were selected for laboratory analysis. Soil samples SSA1, SSA2, SSA7, and SSA8, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in SSA7 and SSA8. SSA1 and SSA2 all exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On June 4, 2024, Hungry Horse conducted delineation sampling of the release area. Sixteen representative soil samples were submitted for laboratory analysis. Soil samples SP1 through SP4 and HZ1 through HZ4 were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples with the exception of SP2 at Surface, SP3 and SP4, at Surface and one-foot bgs, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

January 19, 2022 & February 7, 2023 Sample Map and Delineation Sample Map are provided as Figure 4 and Figure 5, respectively. Laboratory Analytical Data is provided as Attachment III.

## **Proposed Remediation Activities:**

In accordance with NMOCD Regulations, and based upon laboratory analytical results, site characteristics, and field observations made during the initial site assessment, the following remediation activities are proposed in an effort to advance the site toward approved closure.

- Based upon laboratory analytical results received from RT Hicks Consultants, Ltd. sampling activities and Hungry Horse delineation sampling, the release area will be excavated to an approximate depth of five feet bgs. The proposed excavation area, approximately 2,000 sq. ft., is depicted on Figure 5.
- Excavated contaminated soil, including berms, approximately 500 cy, will be temporarily stockpiled onsite, atop plastic, before transport to an NMOCD approved disposal facility.
- Stormwater protection (i.e. berms, waddles, etc.) will be installed around the contaminated soil stockpile to prevent transportation of contaminated soils due to precipitation events. If the plastic is found to be damaged during remediation activities, five-point composite samples, representing no more than 200 square feet, will be

collected from beneath the plastic and analyzed for BTEX, TPH, and chloride to ensure surface soil has not been contaminated.

- Upon completion of excavation activities, five-point composite confirmation samples will be collected from the excavation floor and sidewalls; each sample representing no more than 200 square feet. Confirmation soil samples will be submitted to the laboratory for analysis of BTEX, TPH, and chloride.
- Upon receipt of laboratory analytical results from confirmation soil samples, demonstrating constituent contaminant levels are in excess of the strictest NMOCD Closure Criteria in the excavation floor and/or sidewalls, the area will be further excavated, vertically and/or horizontally, until laboratory analytical data indicates constituent contaminant levels are equal to or below the strictest NMOCD Closure Criteria in the excavation floor and sidewalls.
- Upon receiving laboratory analytical results from confirmation soil samples, demonstrating constituent contaminant levels are equal to or below NMOCD Closure Criteria, the excavation will be backfilled with locally sourced, clean, non-impacted, material. Berms will be rebuilt to contain 1.5 times the volume of the tank.
- Remediation activities are expected to be completed within 30 days of receiving NMOCD and NMBLM approval of this Site Assessment and Remediation Work Plan.

## **Sampling Plan:**

Upon completion of excavation activities, confirmation five-point composite soil samples will be collected from the excavation floor and sidewalls; each sample representing no more than 200 square feet. This will ensure the lateral extents of soil contamination have been removed. Confirmation soil samples will be submitted to the laboratory for analysis of BTEX, TPH, and chloride.

## Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavation will be backfilled with locally sourced, clean, non-impacted material. The area will be contoured to achieve erosion control and preserve surface water flow. As the affected area is located on an active well pad, and no area off pad was affected, no seeding will be required.

## Limitations:

Hungry Horse, LLC, has prepared this *Site Assessment and Remediation Work Plan* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

3



## Distribution:

Murchison Oil & Gas 5325 Sierra Vista Carlsbad, NM 88230

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 2 811 S. First St. Artesia, NM 88210

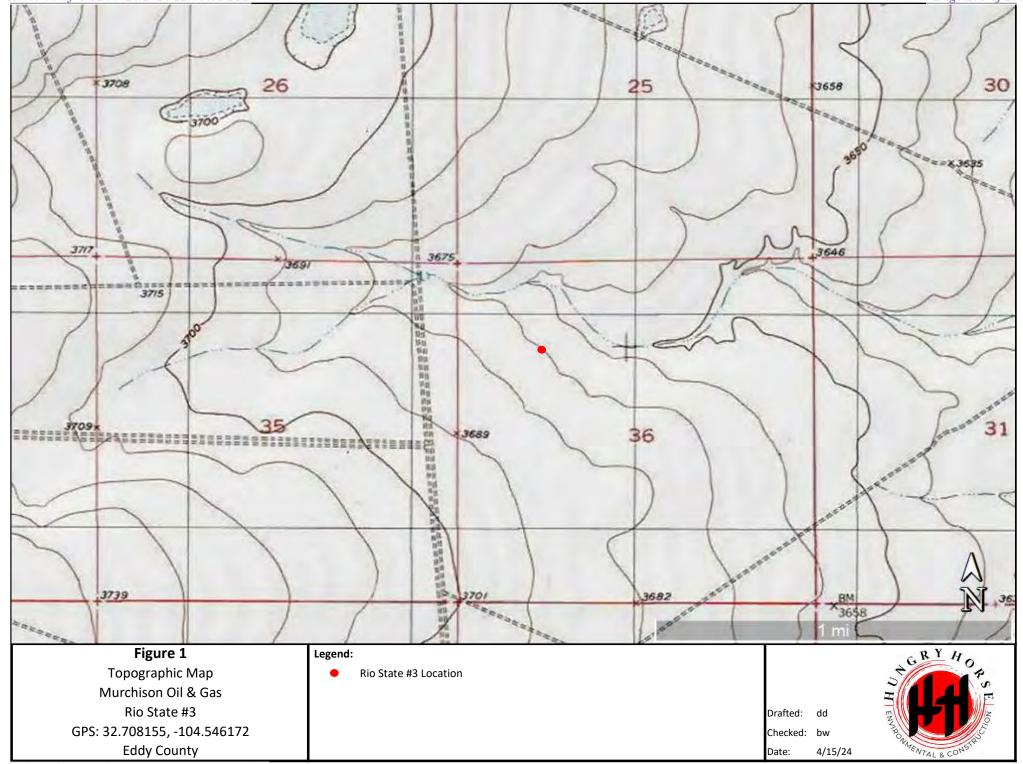
Yates Ranch Property, LLP PO Box 1394 Artesia, NM 88211

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# Figures

Received by OCD: 9/26/2024 12:55:51 PM

Page 138 of 235







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## Table

### TABLE 1 Summary of Soil Sample Laboratory Analytical Results Murchison Oil & Gas Rio State #3 NMOCD Ref. #: nAPP2202454641

| RIVIOCD Ref. #: hAPP2202454641 |               |               |             |                    |                 |  |   |   |   |  |                     |
|--------------------------------|---------------|---------------|-------------|--------------------|-----------------|--|---|---|---|--|---------------------|
| Sample ID                      | Date          | Depth<br>(ft) | Soil Status | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | C <sub>6</sub> -C <sub>10</sub><br>(mg/kg) | C <sub>10</sub> -C <sub>28</sub><br>(mg/kg) | DRO<br>C <sub>6</sub> -C <sub>28</sub><br>(mg/kg) | C <sub>28</sub> -C <sub>36</sub><br>(mg/kg) | C <sub>6</sub> -C <sub>36</sub><br>(mg/kg) | Chloride<br>(mg/kg) |
|                                | 1/19/22       | 0-2           | In-Situ     | <0.050             | <0.300          | 891  | 2,160                                       | 3,051   | 25.4  | 3,076.4                                    | 32.0                |
|                                | 1/19/22       | 2-4           | In-Situ     | <0.050             | <0.300          | 415  | 928   | 1,343   | 11.2  | 1,354.2                                    | 16.0                |
|                                | 1/19/22       | 0-4           | In-Situ     | <0.500             | 112             | 1,540                                      | 3,750                                       | 5,290   | 21.6  | 5,311.6                                    | <16.0               |
| SSA1                           | 1/19/22       | 4.2           | In-Situ     | <0.500             | 77.5            | 691  | 1,760                                       | 2,451   | <10.0                                       | 2,451                                      | <16.0               |
|                                | 2/7/23        | 0-2           | In-Situ     | <0.025             | 3.99            | 1,390                                      | 2,170                                       | 3,560   | <10.0                                       | 3,560                                      | <16.0               |
|                                | 2/7/23        | 2-4           | In-Situ     | <0.500             | 17.1            | 290  | 467   | 757   | <10.0                                       | 757  | 48.0                |
|                                | 2/7/23        | 4.2           | In-Situ     | <0.500             | 21.1            | 504  | 704   | 1,208   | <10.0                                       | 1,208                                      | 32.0                |
|                                | 1/19/22       | 0-2           | In-Situ     | <0.050             | <0.300          | 2,620                                      | 4,010                                       | 6,630   | 38.3  | 6,668.3                                    | 48.0                |
|                                | 1/19/22       | 2-4           | In-Situ     | <0.050             | <0.300          | 914  | 1,780                                       | 2,694   | 14.1  | 2,708.1                                    | <16.0               |
|                                | 1/19/22       | 0-4           | In-Situ     | <0.500             | 136             | 2,860                                      | 7,150                                       | 10,010  | 38.2  | 10,048.2                                   | <16.0               |
| SSA2                           | 1/19/22       | 4.2           | In-Situ     | <0.500             | 102             | 1,260                                      | 3,150                                       | 4,410   | 21.2  | 4,431.2                                    | <16.0               |
|                                | 2/7/23        | 0-2           | In-Situ     | <0.500             | 12.3            | 2,560                                      | 3,570                                       | 6,130   | 29.2  | 6,159.2                                    | 64.0                |
|                                | 2/7/23        | 2-4           | In-Situ     | <0.500             | 59.6            | 2,600                                      | 3,050                                       | 5,650   | 26.6  | 5,676.6                                    | 32.0                |
|                                | 2/7/23        | 4.2           | In-Situ     | <0.500             | 43.5            | 1,710                                      | 2,050                                       | 3,760   | 18.3  | 3,778                                      | 48.0                |
| SSA3                           | 1/19/22       | 0-4           | In-Situ     | <0.050             | 4.53            | 28.3                                       | 123   | 151   | <10.0                                       | 151  | <16.0               |
| JJAJ                           | 1/19/22       | 4.2           | In-Situ     | <0.050             | 2.04            | 10.5                                       | 54.0  | 64.5  | 10.8  | 75.3                                       | <16.0               |
| SSA4                           | 1/19/22       | 0-4           | In-Situ     | <0.050             | 4.05            | 134  | 602   | 736   | <10.0                                       | 736  | 16.0                |
| 55A4                           | 1/19/22       | 4.2           | In-Situ     | <0.050             | 9.57            | 58.0                                       | 219   | 277   | 15.2  | 292.2                                      | 48.0                |
| SSA5                           | 1/19/22       | 0-4           | In-Situ     | <0.050             | 1.67            | 37.5                                       | 221   | 259   | <10.0                                       | 259  | 32.0                |
| JJAJ                           | 1/19/22       | 4.2           | In-Situ     | <0.050             | 3.89            | 13.8                                       | 102   | 115.8   | <10.0                                       | 115.8                                      | 48.0                |
| SSA6                           | 1/19/22       | 0-4           | In-Situ     | <0.050             | 6.82            | 51.8                                       | 366   | 418   | 10.4  | 428  | <16.0               |
| 55A0                           | 1/19/22       | 4.2           | In-Situ     | <0.050             | 4.43            | 62.4                                       | 329   | 391.4   | 12.4  | 403.8                                      | 16.0                |
|                                | 2/7/23        | 0-2           | In-Situ     | <0.025             | <0.150          | <10.0                                      | <10.0                                       | <20.0   | <10.0                                       | <30.0                                      | 48.0                |
| SSA7                           | 2/7/23        | 2-4           | In-Situ     | <0.025             | <0.150          | <10.0                                      | <10.0                                       | <20.0   | <10.0                                       | <30.0                                      | 32.0                |
|                                | 2/7/23        | 4.2           | In-Situ     | <0.025             | <0.150          | <10.0                                      | <10.0                                       | <20.0   | <10.0                                       | <30.0                                      | 32.0                |
|                                | 2/7/23        | 0-2           | In-Situ     | <0.025             | <0.150          | <10.0                                      | <10.0                                       | <20.0   | <10.0                                       | <30.0                                      | 16.0                |
| SSA8                           | 2/7/23        | 2-4           | In-Situ     | <0.025             | <0.150          | <10.0                                      | <10.0                                       | <20.0   | <10.0                                       | <30.0                                      | 48.0                |
|                                | 2/7/23        | 4.2           | In-Situ     | <0.025             | <0.150          | <10.0                                      | <10.0                                       | <20.0   | <10.0                                       | <30.0                                      | 32.0                |
| DC.                            | 1/19/22       | 0-4           | In-Situ     | <0.050             | <0.300          | <10.0                                      | <10.0                                       | <20.0   | <10.0                                       | <30.0                                      | <16.0               |
| BG                             | 1/19/22       | 4.2           | In-Situ     | <0.050             | <0.300          | <10.0                                      | <10.0                                       | <20.0   | <10.0                                       | <30.0                                      | <16.0               |
| NMOCD C                        | Closure Crite | ria           |             | 10                 | 50              | -  | -   | NA  | -   | 100  | 600                 |

#### TABLE 1 Summary of Soil Sample Laboratory Analytical Results Murchison Oil & Gas Rio State #3 NMOCD Ref. #: nAPP2202454641

| Sample ID | Date          | Depth<br>(ft) | Soil Status | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | GRO<br>C <sub>6</sub> -C <sub>10</sub><br>(mg/kg) | DRO<br>C <sub>10</sub> -C <sub>28</sub><br>(mg/kg) | GRO +<br>DRO<br>C <sub>6</sub> -C <sub>28</sub><br>(mg/kg) | ORO<br>C <sub>28</sub> -C <sub>36</sub><br>(mg/kg) | TPH<br>C <sub>6</sub> -C <sub>36</sub><br>(mg/kg) | Chloride<br>(mg/kg) |
|-----------|---------------|---------------|-------------|--------------------|-----------------|---|--|--|--|---|---------------------|
| SP1       | 6/4/24        | Surf          | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 48.0                |
| 371       | 6/4/24        | 1             | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 160                 |
| SP2       | 6/4/24        | Surf          | In-Situ     | <0.050             | <0.300          | <10.0   | 101  | 101  | 34.9   | 135.9   | 800                 |
| JFZ       | 6/4/24        | 1             | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | 80.0                |
| SP3       | 6/4/24        | Surf          | In-Situ     | <0.050             | <0.300          | 105   | 4,960  | 5 <i>,</i> 065   | 267  | 5,332   | 400                 |
| 353       | 6/4/24        | 1             | In-Situ     | <0.050             | <0.300          | 243   | 1,090  | 1,333  | <10.0  | 1,333   | 80.0                |
| SP4       | 6/4/24        | Surf          | In-Situ     | <0.050             | 0.630           | 65.2  | 3,420  | 3,485.2  | 467  | 3,952.2   | 16.0                |
| Jr4       | 6/4/24        | 1             | In-Situ     | <0.050             | 19.4            | 797   | 1,650  | 2,447  | 24.1   | 2,471.1   | 32.0                |
| HZ1       | 6/4/24        | Surf          | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <16.0               |
| ПСТ       | 6/4/24        | 1             | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <16.0               |
| LI72      | 6/4/24        | Surf          | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <16.0               |
| HZ2       | 6/4/24        | 1             | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <16.0               |
| HZ3       | 6/4/24        | Surf          | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <16.0               |
| ПСЭ       | 6/4/24        | 1             | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <16.0               |
| 1174      | 6/4/24        | Surf          | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <16.0               |
| HZ4       | 6/4/24        | 1             | In-Situ     | <0.050             | <0.300          | <10.0   | <10.0  | <20.0  | <10.0  | <30.0   | <16.0               |
| NMOCD (   | Closure Crite | ria           |             | 10                 | 50              | -   | -  | NA   | -  | 100   | 600                 |

# Attachment I Karst, Wetland, and Soil Maps

# Rio State #3



#### 4/17/2024

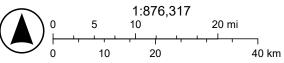
 Karst Type
 Volcanic

 Carbonate
 World Imagery

 Erosional
 Low Resolution 15m Imagery

 Gypsum
 High Resolution 60cm Imagery

High Resolution 30cm Imagery Citations 150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics

**Released to Imaging: 9/30/2024 10:20:23 AM** 

# U.S. Fish and Wildlife Service

# National Wetlands Inventory



#### April 17, 2024

#### Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland

Freshwater Emergent Wetland

**Freshwater Pond** 

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

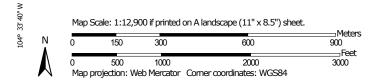
#### Released to Imaging: 9/30/2024 10:20:23 AM

National Wetlands Inventory (NWI) This page was produced by the NWI mapper Received by OCD: 9/26/2024 12:55:51 PM

32° 42' 58" N







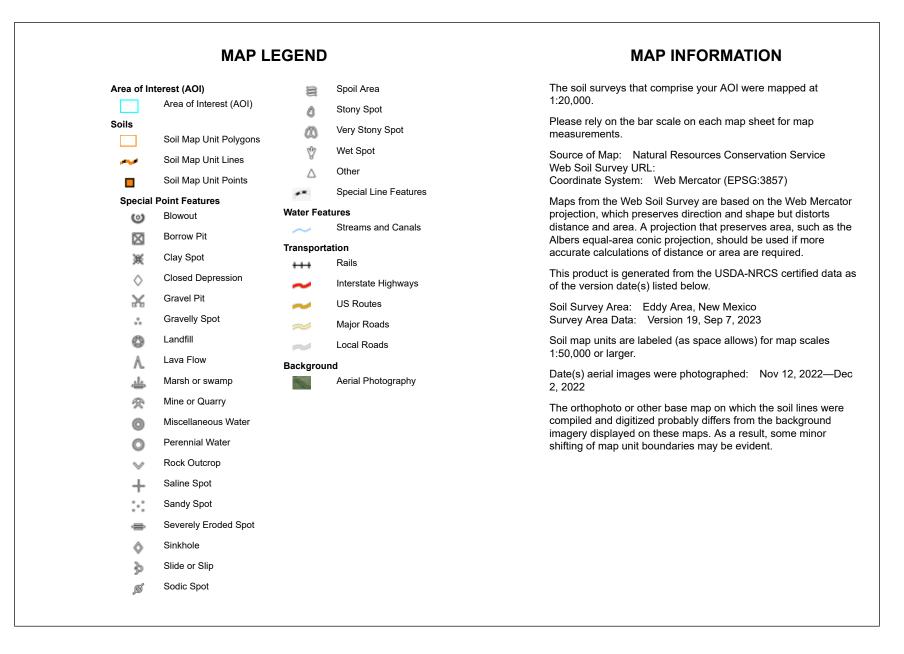
32° 41' 59" N



Natural Resources USDA Released to Imaging: 9/30/2024 90:20:23 AM

Web Soil Survey National Cooperative Soil Survey

4/17/2024 Page 1 of 3



# Map Unit Legend

| Map Unit Symbol             | Map Unit Name                                      | Acres in AOI | Percent of AOI |
|-----------------------------|--|--------------|----------------|
| РМ                          | Pima silt loam, 0 to 1 percent slopes              | 79.3         | 9.7%           |
| RE                          | Reagan-Upton association, 0<br>to 9 percent slopes | 7.2          | 0.9%           |
| UG                          | Upton gravelly loam, 0 to 9 percent slopes         | 21.1         | 2.6%           |
| UR                          | Upton-Reagan complex, 0 to 9 percent slopes        | 712.4        | 86.9%          |
| Totals for Area of Interest |  | 820.0        | 100.0%         |



#### Eddy Area, New Mexico

#### UR—Upton-Reagan complex, 0 to 9 percent slopes

#### Map Unit Setting

National map unit symbol: 1w65 Elevation: 1,100 to 5,400 feet Mean annual precipitation: 6 to 15 inches Mean annual air temperature: 60 to 70 degrees F Frost-free period: 180 to 240 days Farmland classification: Not prime farmland

#### Map Unit Composition

Upton and similar soils: 55 percent Reagan and similar soils: 35 percent Minor components: 10 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Upton**

#### Setting

Landform: Ridges, fans Landform position (three-dimensional): Side slope, rise Down-slope shape: Convex Across-slope shape: Convex Parent material: Residuum weathered from limestone

#### **Typical profile**

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

#### **Properties and qualities**

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s Hydrologic Soil Group: D Ecological site: R070BC025NM - Shallow Hydric soil rating: No

#### **Description of Reagan**

#### Setting

Landform: Fan remnants, alluvial fans Landform position (three-dimensional): Rise Down-slope shape: Convex, linear Across-slope shape: Linear Parent material: Alluvium and/or eolian deposits

#### **Typical profile**

*H1 - 0 to 8 inches:* loam *H2 - 8 to 60 inches:* loam

#### **Properties and qualities**

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

#### Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 6e Hydrologic Soil Group: B Ecological site: R070BC007NM - Loamy Hydric soil rating: No

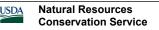
#### Minor Components

#### Pima

Percent of map unit: 5 percent Ecological site: R070BC017NM - Bottomland Hydric soil rating: No

#### Reagan

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy



Hydric soil rating: No

## **Data Source Information**

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 19, Sep 7, 2023



# Attachment II Depth to Groundwater

# New Mexico Office of the State Engineer Wells with Well Log Information

|   |                          |                      | 1                                      | No wells for  | und.  |
|---|--------------------------|----------------------|--|---------------|---|
| UTMNAD83 Ra   | dius Search (in meters): |                      |  |               |   |
| Easting (X):  | 542535                   | Northing (Y):        | 3619022                                | Radius: 8     | 305   |
|   |                          |                      |  |               |   |
| The data is furnished by<br>particular purpose of the |                          | y the recipient with | n the expressed understanding that the | e OSE/ISC mal | ke no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for |
| 4/17/24 1:09 PM                                       |                          |                      |  |               | WELLS WITH WELL LOG INFORMATION   |



# New Mexico Office of the State Engineer **Point of Diversion Summary**

|                   |            | (quarters are 1=NW 2=N<br>(quarters are smallest to |          | (NAD83 UTM in meters) |
|-------------------|------------|---|----------|-----------------------|
| Well Tag          | POD Number | Q64 Q16 Q4 Sec                                      | Tws Rng  | X Y                   |
|                   | RA 08148   | 3 3 1 36  | 18S 24E  | 542252 3618748* 😜     |
| ×<br>Driller Lic  | ense:      | Driller Company:                                    |          |                       |
| Driller Na        | me:        |   |          |                       |
| Drill Start       | Date:      | <b>Drill Finish Date:</b>                           |          | Plug Date:            |
| Log File D        | ate:       | PCW Rcv Date:                                       |          | Source:               |
| Pump Typ          | e:         | Pipe Discharge Size:                                |          | Estimated Yield:      |
| <b>Casing Siz</b> | e: 8.00    | Depth Well:   | 508 feet | Depth Water:          |

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer **Point of Diversion Summary**

|                    |                 | (quarters are 1=NW 2=<br>(quarters are smallest | · · · · · | (NAD83 UTM in meters) |                  |
|--------------------|-----------------|---|-----------|-----------------------|------------------|
| Well Tag           | POD Number      | Q64 Q16 Q4 See                                  | e Tws Rng | X Y                   |                  |
|                    | RA 11061 POD1   | 4 2 35  | 18S 24E   | 541949 3618852* 🧲     |                  |
| x<br>Driller Lice  | ense:           | Driller Company:                                |           |                       |                  |
| Driller Nan        | ne: UNKNOWN DRI | ILLER   |           |                       |                  |
| Drill Start        | Date:           | Drill Finish Date:                              | 12/31/198 | Plug Date:            |                  |
| Log File Da        | ite:            | PCW Rev Date:                                   |           | Source:               |                  |
| Pump Type          | :               | Pipe Discharge Size                             | :         | Estimated Yield       | <b>:</b> 400 GPM |
| <b>Casing Size</b> | : 5.00          | Depth Well:                                     | 450 feet  | <b>Depth Water:</b>   | 364 feet         |

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/17/24 1:28 PM

POINT OF DIVERSION SUMMARY

USGS Home Contact USGS Search USGS



National Water Information System: Web Interface

USGS Water Resources

 Data Category:
 Geographic Area:

 Groundwater
 V

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔝

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

#### Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 324217104325401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 324217104325401 18S.24E.35.24444

Eddy County, New Mexico Latitude 32°42'17", Longitude 104°32'54" NAD27 Land-surface elevation 3,689 feet above NGVD29 The depth of the well is 450.00 feet below land surface. This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer. This well is completed in the Artesia Group (313ARTS) local aquifer. **Output formats** 

| Table of data      |  |
|--------------------|--|
| Tab-separated data |  |
| Graph of data      |  |
| Reselect period    |  |

| Date       | Time | ?<br>Water-<br>level<br>date-<br>time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source (<br>measure |
|------------|------|---|------------------------|---|---|---------------------------------|-------------|-------------------------------|--------------------------|--------------------------|
|            |      |   |                        |   |   |                                 |             |                               |                          |                          |
| 1990-02-20 |      | D   | 62610                  |   | 3324.50   | NGVD29                          | Р           | S                             |                          |                          |
| 1990-02-20 |      | D   | 62611                  |   | 3326.10   | NAVD88                          | Р           | S                             |                          |                          |
| 1990-02-20 |      | D   | 72019                  | 364.50  |   |                                 | Р           | S                             |                          |                          |
| 1994-02-21 |      | D   | 62610                  |   | 3317.37   | NGVD29                          |             | S                             |                          |                          |
| 1994-02-21 |      | D   | 62611                  |   | 3318.97   | NAVD88                          |             | S                             |                          |                          |
| 1994-02-21 |      | D   | 72019                  | 371.63  |   |                                 |             | S                             |                          |                          |
| 1999-02-02 |      | D   | 62610                  |   | 3309.83   | NGVD29                          | 1           | S                             | USC                      | S                        |
| 1999-02-02 |      | D   | 62611                  |   | 3311.43   | NAVD88                          | 1           | S                             | USC                      | S                        |
| 1999-02-02 |      | D   | 72019                  | 379.17  |   |                                 | 1           | S                             | USC                      | S                        |

| Explanation                    |       |   |  |  |  |
|--------------------------------|-------|---|--|--|--|
| Section                        | Code  | Description                             |  |  |  |
| Water-level date-time accuracy | D     | Date is accurate to the Day             |  |  |  |
| Parameter code                 | 62610 | Groundwater level above NGVD 1929, feet |  |  |  |
| Parameter code                 | 62611 | Groundwater level above NAVD 1988, feet |  |  |  |

#### **Released to Imaging: 9/30/2024 10:20:23 AM**

#### Received by OCD: 9/26/2024 12:55:51 PM

| Section                     | Code   | Description  |
|-----------------------------|--------|--|
| Parameter code              | 72019  | Depth to water level, feet below land surface                  |
| Referenced vertical datum   | NAVD88 | North American Vertical Datum of 1988                          |
| Referenced vertical datum   | NGVD29 | National Geodetic Vertical Datum of 1929                       |
| Status                      |        | The reported water-level measurement represents a static level |
| Status                      | 1      | Static   |
| Status                      | Р      | Pumping  |
| Method of measurement       | S      | Steel-tape measurement.  |
| Measuring agency            |        | Not determined   |
| Measuring agency            | USGS   | U.S. Geological Survey   |
| Source of measurement       |        | Not determined   |
| Source of measurement       | S      | Measured by personnel of reporting agency.                     |
| Water-level approval status | А      | Approved for publication Processing and review completed.      |

#### Questions or Comments Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-04-17 15:31:15 EDT 0.31 0.26 nadww01 USA.gov

# Attachment III Field Data

#### Sample Log

Hungry Horse, LLC

Project: Rio State #3

Karst Yes Water <50' Standard TPH 100mg/kg, Chloride 600mg/kg Date: <u>6-4-24</u> GPS: <u>32.708155</u>, -<u>104.546172</u> Sampler: Jerry Heidelberg

Chloride GPS Sample ID PID/Odor Depth Surt 1.4/@ 30X4= 120 NA HZ1 1.4@ 36X4=144 SURP HZ2 1.87100 7 1.27100 1.6@ 36x4=144 HZ3 Sort 1.4 @ 30×4=120 (1 HZY Surt 1,207100 1.40 30X4= 120 SP Sart 1.4030x4=120 NO 314@ 11484=456 1º 10 21 31 41 ŧ 6 21 10' 12' SURF yes 5.0027×4=908 SP2 Yes 1.8043×4=177 2.6073X4=292 21 30 N 6' 81 101 1 12 SP3 SOFP ves 3.60 125× 4=500 1.80 43x4 = 172 yes 0' 3 Al 6' 8 10' 12'

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ## Resamples= SP1b @ 5' or SW #1b

Floor = FL1 etc Sidewall = SW1 etc Refusal = SP1 @ 4'-R GPS Sample Points, Center of Comp Areas

,

np Areas Stockpile = Stockpile #1

Released to Imaging: 9/30/2024 10:20:23 AM

### Sample Log

Hungry Horse, LLC

Project: Rio State #3

Karst Yes Water <50' Standard TPH 100mg/kg, Chloride 600mg/kg Date: GPS: 32.708155, -104.546172 Sampler: Jerry Heidelberg

| Sample ID        | Depth                                  | PID/Odor | Chloride                 | GPS |
|------------------|--|----------|--------------------------|-----|
| Sample ID<br>SPM | Depth<br>Surf                          | Yes      | 0.8>00                   |     |
|                  | 14                                     | NO       | 0.8>100<br>2.8083X4=.332 |     |
|                  | 2'3'                                   |          |                          |     |
|                  | 31                                     | 1        |                          |     |
|                  | NS                                     |          |                          |     |
|                  | Bi                                     |          |                          |     |
|                  | H <sup>s</sup><br>B <sup>i</sup><br>B' |          |                          |     |
|                  | 10'                                    | 1        |                          |     |
|                  | 10'                                    |          |                          |     |
|                  | 100                                    |          |                          |     |
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|                  |  |          |                          |     |

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc

Sidewall = SW1 etc

Refusal = SP1 @ 4'-R GPS Sample Points, Center of Comp Areas Resamples= SP1b @ 5' or SW #1b Stockpile = Stockpile #1

# Attachment IV Laboratory Analytical Results



February 15, 2022

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: RIO STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/14/22 11:05.

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



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/14/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 02/15/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: SSA - 1 @ 0-2' (H220560-01)

| Chloride, SM4500Cl-B mg/kg |        | Analyze         | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 32.0   | 16.0            | 02/15/2022      | ND           | 432 | 108        | 400           | 0.00 |           |

#### Sample ID: SSA - 1 @ 2-4' (H220560-02)

| Chloride, SM4500Cl-B mg/kg |        | Analyze         | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 16.0   | 16.0            | 02/15/2022      | ND           | 432 | 108        | 400           | 0.00 |           |

#### Sample ID: SSA - 2 @ 0-2' (H220560-03)

| Chloride, SM4500Cl-B mg/kg |        | Analyze         | Analyzed By: AC |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 48.0   | 16.0            | 02/15/2022      | ND           | 432 | 108        | 400           | 0.00 |           |

#### Sample ID: SSA - 2 @ 2-4' (H220560-04)

| Chloride, SM4500Cl-B | mg,    | /kg             | Analyzed By: AC |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | <16.0  | 16.0            | 02/15/2022      | ND           | 432 | 108        | 400           | 0.00 |           |

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **Notes and Definitions**

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

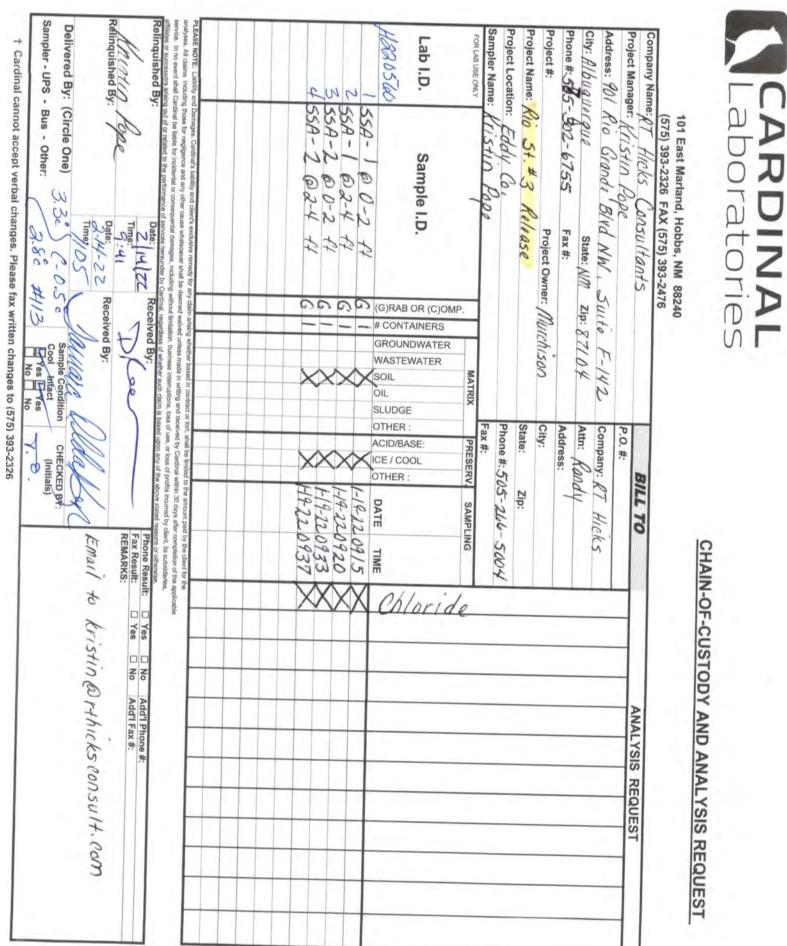
#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

#### Received by OCD: 9/26/2024 12:55:51 PM



#### Page 168 of 235



February 15, 2022

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: RIO STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/14/22 11:05.

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



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/14/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 02/15/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: SSA - 1 @ 0-2' (H220561-01)

| TPH 8015M                     | kg     | Analyzed By: CK |            |              |     |            |               | I-03, S-04 |           |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD        | Qualifier |
| GRO C6-C10*                   | 891    | 10.0            | 02/15/2022 | ND           | 208 | 104        | 200           | 0.994      |           |
| DRO >C10-C28*                 | 2160   | 10.0            | 02/15/2022 | ND           | 225 | 112        | 200           | 3.80       |           |
| EXT DRO >C28-C36              | 25.4   | 10.0            | 02/15/2022 | ND           |     |            |               |            |           |
| Surrogate: 1-Chlorooctane     | 254 %  | 66.9-13         | 6          |              |     |            |               |            |           |
| Surrogate: 1-Chlorooctadecane | 136%   | 6 59.5-14       | 2          |              |     |            |               |            |           |

#### Sample ID: SSA - 1 @ 2-4' (H220561-02)

| TPH 8015M                     | mg/kg  |                 | Analyzed By: CK |              |     |            |               |       | I-03, S-04 |  |
|-------------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|-------|------------|--|
| Analyte                       | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier  |  |
| GRO C6-C10*                   | 415    | 10.0            | 02/15/2022      | ND           | 208 | 104        | 200           | 0.994 |            |  |
| DRO >C10-C28*                 | 928    | 10.0            | 02/15/2022      | ND           | 225 | 112        | 200           | 3.80  |            |  |
| EXT DRO >C28-C36              | 11.2   | 10.0            | 02/15/2022      | ND           |     |            |               |       |            |  |
| Surrogate: 1-Chlorooctane     | 175 %  | 66.9-13         | 6               |              |     |            |               |       |            |  |
| Surrogate: 1-Chlorooctadecane | 135 %  | 59.5-14         | 2               |              |     |            |               |       |            |  |

#### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/14/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 02/15/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: SSA - 2 @ 0-2' (H220561-03)

| TPH 8015M mg/kg               |        | Analyzed By: CK |            |              |     |            |               | I-03, S-04 |           |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------------|-----------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD        | Qualifier |
| GRO C6-C10*                   | 2620   | 10.0            | 02/15/2022 | ND           | 208 | 104        | 200           | 0.994      |           |
| DRO >C10-C28*                 | 4010   | 10.0            | 02/15/2022 | ND           | 225 | 112        | 200           | 3.80       |           |
| EXT DRO >C28-C36              | 38.3   | 10.0            | 02/15/2022 | ND           |     |            |               |            |           |
| Surrogate: 1-Chlorooctane     | 429 %  | 66.9-13         | 6          |              |     |            |               |            |           |
| Surrogate: 1-Chlorooctadecane | 147 %  | 59.5-14         | 2          |              |     |            |               |            |           |

#### Sample ID: SSA - 2 @ 2-4' (H220561-04)

| TPH 8015M                     | mg/    | kg              | Analyze    | d By: CK     |     |            |               |       | I-03, S-04 |
|-------------------------------|--------|-----------------|------------|--------------|-----|------------|---------------|-------|------------|
| Analyte                       | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD   | Qualifier  |
| GRO C6-C10*                   | 914    | 10.0            | 02/15/2022 | ND           | 208 | 104        | 200           | 0.994 |            |
| DRO >C10-C28*                 | 1780   | 10.0            | 02/15/2022 | ND           | 225 | 112        | 200           | 3.80  |            |
| EXT DRO >C28-C36              | 14.1   | 10.0            | 02/15/2022 | ND           |     |            |               |       |            |
| Surrogate: 1-Chlorooctane     | 248 %  | 66.9-13         | 6          |              |     |            |               |       |            |
| Surrogate: 1-Chlorooctadecane | 139 %  | 6 59.5-14       | 2          |              |     |            |               |       |            |
|                               |        |                 |            |              |     |            |               |       |            |

#### **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. |
|------|--|
| I-03 | This result was extracted outside of the EPA recommended holding time of 14 days.                              |
| 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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# aboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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| 393-2476 | 88240    |
|          |          |

| (575) 393-2326 FAX (575) 393-2476  |   |             |
|--|---|-------------|
| Company Name: PT Hinks Consultants   | HS BILL TO ANALYSIS   | REQUEST     |
| Kristin Pon  | P.O. #  |             |
| Rio Grande B.  | F-142 Company: AT Hicks   |             |
|  | Zip: 87/04 Attn: Randy  |             |
| Phone #: 575-302-6755 Fax #:   | Address:  |             |
|  | er: Murchison city:   |             |
| Project Name: Rin St. #3 Release   | State: Zip:   |             |
| m: Eddy Co.  | Phone #: 505-266-5004   |             |
| Sampler Name: Kristin Pope   | 1   |             |
| 1 man  | MATRIX PRESERV SAMPLING   |             |
| Lab I.D. Sample I.D.   | R :<br>BASE:<br>COOL  |             |
| H220561  | # CONT<br>GROUN<br>WASTE<br>SOIL<br>OIL<br>SLUDG<br>OTHEF<br>ACID/B<br>ICE / C<br>OTHEF   |             |
| 1 55A - 1 @ 0 - 2 ft   | G 11 X 1.19-220915 X  |             |
| 3 55A-2 @ 0-2 H  | 1 X X 1-17-22,  |             |
| SSA-2 (  | 1 X X 49.72   |             |
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| PLEASE NOTE: Lubbility and Damages. Cardinal's liability and client's exclusive remedy for   | PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount paid by the client for the |             |
| analyses. All claims including those for negligence and any other cause wratsever save<br>service. In no event shall Cardinal be liable for incidental or consequential damages, includin<br>service. In no event shall Cardinal be liable for incidental or consequential damages, includin |   |             |
| out of or related to the performance   | Phone Result:   |             |
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- ------ Blanna for unition channes to IRTEL 202.020R



January 28, 2022

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: RIO STATE #3 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/24/22 11:25.

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>.

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Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: BG @ 0-4' BGS (H220256-01)

| BTEX 8021B                           | mg     | /kg             | Analyze         | d By: MS/    |      |            |               |       |           |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/27/2022      | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | <0.050 | 0.050           | 01/27/2022      | ND           | 2.03 | 102        | 2.00          | 0.677 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/27/2022      | ND           | 2.04 | 102        | 2.00          | 0.527 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/27/2022      | ND           | 6.21 | 103        | 6.00          | 0.448 |           |
| Total BTEX                           | <0.300 | 0.300           | 01/27/2022      | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 101    | % 69.9-14       | 0               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg     | /kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg     | /kg             | Analyzed By: MS |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 01/27/2022      | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 01/27/2022      | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 01/27/2022      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 79.6   | % 66.9-13       | 6               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 77.9   | % 59.5-14       | 2               |              |      |            |               |       |           |

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: SSA - 1 @ 0-4' BGS (H220256-02)

| BTEX 8021B                           | mg/    | /kg             | Analyze         | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.500 | 0.500           | 01/28/2022      | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | 4.57   | 0.500           | 01/28/2022      | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 18.0   | 0.500           | 01/28/2022      | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 89.5   | 1.50            | 01/28/2022      | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC1    |
| Total BTEX                           | 112    | 3.00            | 01/28/2022      | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 395    | % 69.9-14       | 0               |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | /kg             | Analyze         | d By: MS     |      |            |               |       | S-04      |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 1540   | 10.0            | 01/27/2022      | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 3750   | 10.0            | 01/27/2022      | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | 21.6   | 10.0            | 01/27/2022      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 341    | % 66.9-13       | 6               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 78.5   | % 59.5-14       | 2               |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: SSA - 2 @ 0-4' BGS (H220256-03)

| BTEX 8021B                           | mg/    | ′kg             | Analyze         | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.500 | 0.500           | 01/28/2022      | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | 7.00   | 0.500           | 01/28/2022      | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 21.2   | 0.500           | 01/28/2022      | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 108    | 1.50            | 01/28/2022      | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC1    |
| Total BTEX                           | 136    | 3.00            | 01/28/2022      | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 424 9  | % 69.9-14       | 10              |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyzed By: AC |              |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022      | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyzed By: MS |              |      |            |               | S-04  |           |
| Analyte                              | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 2860   | 10.0            | 01/27/2022      | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 7150   | 10.0            | 01/27/2022      | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | 38.2   | 10.0            | 01/27/2022      | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 378 \$ | % 66.9-13       | 6               |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 87.0   | % 59.5-14       | 2               |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: SSA - 3 @ 0-4' BGS (H220256-04)

| BTEX 8021B                           | mg/    | ′kg             | Analyze    | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/27/2022 | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | 0.074  | 0.050           | 01/27/2022 | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 0.791  | 0.050           | 01/27/2022 | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 3.66   | 0.150           | 01/27/2022 | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC1    |
| Total BTEX                           | 4.53   | 0.300           | 01/27/2022 | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 313 9  | % 69.9-14       | 0          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022 | ND           | 416  | 104        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 28.3   | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 126    | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 01/27/2022 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 97.0   | % 66.9-13       | 6          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 83.7   | % 59.5-14       | 2          |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: SSA - 4 @ 0-4' BGS (H220256-05)

| BTEX 8021B                           | mg/    | ′kg             | Analyze    | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/27/2022 | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | 0.050  | 0.050           | 01/27/2022 | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 0.823  | 0.050           | 01/27/2022 | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 3.18   | 0.150           | 01/27/2022 | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC1    |
| Total BTEX                           | 4.05   | 0.300           | 01/27/2022 | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 294 9  | % 69.9-14       | 0          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 16.0   | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 134    | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 602    | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 01/27/2022 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 145 9  | % 66.9-13       | 6          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 86.8   | % 59.5-14       | 2          |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

#### Sample ID: SSA - 5 @ 0-4' BGS (H220256-06)

| BTEX 8021B                           | mg/    | ′kg             | Analyze    | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/27/2022 | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | <0.050 | 0.050           | 01/27/2022 | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC     |
| Ethylbenzene*                        | 0.314  | 0.050           | 01/27/2022 | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC     |
| Total Xylenes*                       | 1.35   | 0.150           | 01/27/2022 | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC     |
| Total BTEX                           | 1.67   | 0.300           | 01/27/2022 | ND           |      |            |               |       | GC-NC     |
| Surrogate: 4-Bromofluorobenzene (PID | 201 9  | % 69.9-14       | 0          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 32.0   | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 37.5   | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 221    | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 01/27/2022 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 104 9  | % 66.9-13       | 6          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 82.7   | % 59.5-14       | 2          |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

### Sample ID: SSA - 6 @ 0-4' BGS (H220256-07)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/27/2022 | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | 0.117  | 0.050           | 01/27/2022 | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 1.14   | 0.050           | 01/27/2022 | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 5.56   | 0.150           | 01/27/2022 | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC1    |
| Total BTEX                           | 6.82   | 0.300           | 01/27/2022 | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 409 9  | % 69.9-14       | 0          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | 'kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | 'kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 51.8   | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 366    | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | 10.4   | 10.0            | 01/27/2022 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 121 9  | % 66.9-13       | 6          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 95.9   | % 59.5-14       | 2          |              |      |            |               |       |           |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

### Sample ID: SSA - 1 @ 4.2' BGS (H220256-08)

| BTEX 8021B                           | mg     | ′kg             | Analyze    | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.500 | 0.500           | 01/28/2022 | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | 2.77   | 0.500           | 01/28/2022 | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 12.4   | 0.500           | 01/28/2022 | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 62.3   | 1.50            | 01/28/2022 | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC1    |
| Total BTEX                           | 77.5   | 3.00            | 01/28/2022 | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 338    | % 69.9-14       | 0          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 691    | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 1760   | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 01/27/2022 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 285    | % 66.9-13       | 6          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 102    | % 59.5-14       | 2          |              |      |            |               |       |           |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

### Sample ID: SSA - 2 @ 4.2' BGS (H220256-09)

| BTEX 8021B                           | mg/    | /kg             | Analyze    | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.500 | 0.500           | 01/28/2022 | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | 4.05   | 0.500           | 01/28/2022 | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 15.3   | 0.500           | 01/28/2022 | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 83.0   | 1.50            | 01/28/2022 | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC     |
| Total BTEX                           | 102    | 3.00            | 01/28/2022 | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 381    | % 69.9-14       | 0          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 1260   | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 3150   | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | 21.2   | 10.0            | 01/27/2022 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 245    | % 66.9-13       | 6          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 98.9   | % 59.5-14       | -          |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

### Sample ID: SSA - 3 @ 4.2' BGS (H220256-10)

| BTEX 8021B                           | mg/    | ′kg             | Analyze    | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/27/2022 | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | <0.050 | 0.050           | 01/27/2022 | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 0.383  | 0.050           | 01/27/2022 | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 1.66   | 0.150           | 01/27/2022 | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC1    |
| Total BTEX                           | 2.04   | 0.300           | 01/27/2022 | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 219 9  | % 69.9-14       | 10         |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | ′kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | ′kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 10.5   | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 54.0   | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | 10.8   | 10.0            | 01/27/2022 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 92.7   | % 66.9-13       | 6          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 90.0   | % 59.5-14       | 12         |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

### Sample ID: SSA - 4 @ 4.2' BGS (H220256-11)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: MS/    |      |            |               |       | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/28/2022 | ND           | 2.14 | 107        | 2.00          | 1.10  |           |
| Toluene*                             | 0.170  | 0.050           | 01/28/2022 | ND           | 2.03 | 102        | 2.00          | 0.677 | GC-NC1    |
| Ethylbenzene*                        | 1.57   | 0.050           | 01/28/2022 | ND           | 2.04 | 102        | 2.00          | 0.527 | GC-NC1    |
| Total Xylenes*                       | 7.82   | 0.150           | 01/28/2022 | ND           | 6.21 | 103        | 6.00          | 0.448 | GC-NC1    |
| Total BTEX                           | 9.57   | 0.300           | 01/28/2022 | ND           |      |            |               |       | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 487    | % 69.9-14       | 0          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 48.0   | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 58.0   | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30  |           |
| DRO >C10-C28*                        | 219    | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5  |           |
| EXT DRO >C28-C36                     | 15.2   | 10.0            | 01/27/2022 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 116 9  | % 66.9-13       | 6          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 97.0   | % 59.5-14       | 2          |              |      |            |               |       |           |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

### Sample ID: SSA - 5 @ 4.2' BGS (H220256-12)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: MS/    |      |            |               |      | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/26/2022 | ND           | 2.10 | 105        | 2.00          | 3.67 |           |
| Toluene*                             | <0.050 | 0.050           | 01/26/2022 | ND           | 2.01 | 100        | 2.00          | 3.55 | GC-NC     |
| Ethylbenzene*                        | 0.845  | 0.050           | 01/26/2022 | ND           | 2.02 | 101        | 2.00          | 3.98 | GC-NC1    |
| Total Xylenes*                       | 3.04   | 0.150           | 01/26/2022 | ND           | 6.11 | 102        | 6.00          | 4.08 | GC-NC1    |
| Total BTEX                           | 3.89   | 0.300           | 01/26/2022 | ND           |      |            |               |      | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 291    | % 69.9-14       | 0          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | d By: AC     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 48.0   | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | 13.8   | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30 |           |
| DRO >C10-C28*                        | 102    | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 01/27/2022 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 103    | % 66.9-13       | 6          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 97.0   | % 59.5-14       | 2          |              |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

### Sample ID: SSA - 6 @ 4.2' BGS (H220256-13)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: MS/    |      |            |               |      | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/26/2022 | ND           | 2.10 | 105        | 2.00          | 3.67 |           |
| Toluene*                             | <0.050 | 0.050           | 01/26/2022 | ND           | 2.01 | 100        | 2.00          | 3.55 | GC-NC     |
| Ethylbenzene*                        | 0.956  | 0.050           | 01/26/2022 | ND           | 2.02 | 101        | 2.00          | 3.98 | GC-NC1    |
| Total Xylenes*                       | 3.47   | 0.150           | 01/26/2022 | ND           | 6.11 | 102        | 6.00          | 4.08 | GC-NC1    |
| Total BTEX                           | 4.43   | 0.300           | 01/26/2022 | ND           |      |            |               |      | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 359    | % 69.9-14       | 0          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | d By: AC     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 16.0   | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00 |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | 62.4   | 10.0            | 01/27/2022 | ND           | 216  | 108        | 200           | 2.30 |           |
| DRO >C10-C28*                        | 329    | 10.0            | 01/27/2022 | ND           | 254  | 127        | 200           | 12.5 |           |
| EXT DRO >C28-C36                     | 12.4   | 10.0            | 01/27/2022 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 124    | % 66.9-13       | 6          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 94.9   | % 59.5-14       | 2          |              |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 01/24/2022           | Sampling Date:      | 01/19/2022     |
|-------------------|----------------------|---------------------|----------------|
| Reported:         | 01/28/2022           | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #3 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN           | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.  |                     |                |

### Sample ID: BG @ 4.2' BGS (H220256-14)

| BTEX 8021B                           | mg/    | /kg             | Analyze    | d By: MS/    |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/26/2022 | ND           | 2.10 | 105        | 2.00          | 3.67 |           |
| Toluene*                             | 0.134  | 0.050           | 01/26/2022 | ND           | 2.01 | 100        | 2.00          | 3.55 | GC-NC1    |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/26/2022 | ND           | 2.02 | 101        | 2.00          | 3.98 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/26/2022 | ND           | 6.11 | 102        | 6.00          | 4.08 |           |
| Total BTEX                           | <0.300 | 0.300           | 01/26/2022 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 99.5   | % 69.9-14       | 0          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | d By: AC     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 01/26/2022 | ND           | 432  | 108        | 400           | 0.00 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 01/26/2022 | ND           | 197  | 98.6       | 200           | 2.47 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 01/26/2022 | ND           | 227  | 113        | 200           | 3.90 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 01/26/2022 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 90.2   | % 66.9-13       | 6          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 88.2   | % 59.5-14       | 2          |              |      |            |               |      |           |

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Celez 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.                                    |
|--------|---|
| GC-NC1 | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds. |
| GC-NC  | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.                         |
| ND     | Analyte NOT DETECTED at or above the reporting limit  |
| RPD    | Relative Percent Difference   |
| **     | Samples not received at proper temperature of 6°C or below.   |
| ***    | Insufficient time to reach temperature.   |
| -      | Chloride by SM4500Cl-B does not require samples be received at or below 6°C   |
|        | Samples reported on an as received basis (wet) unless otherwise noted on report   |
|        |   |

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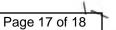
Celey D. Keene, Lab Director/Quality Manager

# 101 East Marland, Hobbs, NM 88240

# (575) 393-2326 FAX (575) 393-2476

| Company Name: R.T. Hicks Consultants   |  | BILL TO   |  | 101 |
|--|--|---|--|-----|
| Project Manager:   |  |   |  |     |
| Address: 901 Rio Grande Blvd NW, Suite F-142   |  | Company: R.T. Hicks Consultants   | ř  |     |
| City: Albuquerque State: NM  | V Zip: 87104   | Attn: Randy Hicks   |  |     |
| Phone #: 505-266-5004 Fax #:   |  | Address:  |  |     |
| Project #: Project Owner:  | wner: Murchison  | City:   |  |     |
| Project Name: Rio State #3 release   |  | State: Zin:   |  |     |
| Project Location: Eddy County  |  | #   |  |     |
|  |  | · mone m.   | )  |     |
| Sampler Name: Kristin Pope   |  | Fax #:  |  |     |
| FOR LABUSE ONLY  |  | PRESERV. SAMPLING   | 2015   |     |
| Lab I.D. Sample I.D.   | (G)RAB OR (C)O<br>CONTAINERS<br>GROUNDWATE<br>NASTEWATER<br>SOIL<br>DIL<br>SLUDGE  |   | TPH 8<br>BTEX<br>Chloride  |     |
| 1 BR @ 0-4 ft B65  |  | X 1/19/22 6   |  |     |
| 0-4  | s c i X  | X 0920  |  |     |
| 11 h-0 0 2-455   |  | X ( 0937  |  |     |
| 2 224 17 TO DE 1001  |  | 64 60 X   |  |     |
| th +-00  |  |   |  |     |
| 1 55A-6 @ 0-4 ft B65   | S C I X  | 8/0/ X  |  |     |
|  |  |   |  |     |
| PLEASE NOTE: Lobility and Damages. Cardifiat's lability and clent's exclusive remedy for any claim arising whether based in contract or lost, shall be limited to the amount paid by the clent for the<br>analyses. All claims including those for negligence and any other cause whatsbeer shall be demed waived unless made in writing and received by Cardinal within 30 days after completion of the applica<br>service. In no event shall Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clent, its subaldiaries,<br>affiliates or successors arising out of or related to the performance of services have under an under an entering incidence of the applications. | usive remedy for any claim arising whether based in contract<br>alsover: shall be deemed valved unless made in writing and<br>amages, including without initiation, business interruptions,<br>ts hereinder bu Credinal resources. | arising whether based in contrast or tort, shall be limited to the amount paid by the cleant for the<br>waived unless made in writing and received by Cardinal within 30 days after completion of the ay<br>limitation, business interruptions, loss of use, or loss of profits incurred by cleant, its subsidiaries,<br>inimitation, business interruptions, loss of use, or loss of profits incurred by cleant, its subsidiaries, | or the<br>the applicable<br>aries,   |     |
| Keiinquished By:<br>1-24-22<br>Timp:///  | Received By:   | Phone Result:<br>Fax Result:<br>REMARKS:  | ss.<br>ssult: □ Yes □ No Add'I Phone #:<br>It: □ Yes □ No Add'I Fax #:<br>S: |     |
| Relinquished By: Populate:<br>Time:  | Received By:   | LUCAL DAL Ema   | Email to kristin@rthicksconsult.com  |     |
| Delivered By: (Circle One)   | 0.52 Sample Condition  | CH  |  |     |
| 180  | 1.3 #1/3 Pres Pres   |   |  |     |
|  |  |   |  |     |

### Received by OCD: 9/26/2024 12:55:51 PM



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 190 of 235

aboratories

### Received by OCD: 9/26/2024 12:55:51 PM

Project Location: Project Name: Rio State #3 release Project #: Phone #: 505-266-5004 City: Albuquerque Sampler Name: Address: 901 Rio Grande Blvd NW, Suite F-142 Project Manager: Company Name: Sampler - UPS - Bus - Other Relinquished By: Relinquished By anaryses. All daims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the app service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, LEASE NOTE: Liabi FOR LABUSE ONLY Delivered By: (Circle One) 1220256 Lab I.D. † Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 0 0 1 S sing out of or related 55A - 5 86 SSAA-6 SSA -56A-3 55A-2 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 SSA-Kristin Pope R.T. Hicks Consultants Eddy County @ 4.2 4 Sample I.D. D D 6 0 0 0 22 4.2 4.2 4.2 6 0 Date: 34 Fax #: TIMFIZS Project Owner: Date: 865 Time: State: NM 4 2 2 865 BGS BAS 865 0 Ris PGG S 31 dy for A 0.Se 5 Zip: 87104 5 2 5 9 9 9 (G)RAB OR (C)OMP Received By Received Murchison # CONTAINERS GROUNDWATER Cool Infact Ves I Yes No No Sample Condition WASTEWATER MATRIX SOIL OIL 4 SLUDGE City: OTHER Fax #: Phone #: State: Attn: Randy Hicks P.O. #: Address: Company: R.T. Hicks Consultants , CHECKED BY: ACID/BASE: PRESERV ICE / COOL (Initials) BILL OTHER Zip 1/19/22 DATE SAMPLING 10 paid by the client for the 10 04 Fax Result: REMARKS: 0954 0922 102 1012 0940 Phone Result: 0912 TIME Email to kristin@rthicksconsult.com PH 80 licable Yes hlori ANALYSIS Add'l Fax #: Add'I Phone #: REQUEST

Page 18 of 18

12

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

### Page 191 of 235

Laboratories



February 13, 2023

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: RIO STATE #003 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/08/23 11:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <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



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 1 @ 0-2' (H230547-01)

| BTEX 8260B                      | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 1.89 | 94.4       | 2.00          | 5.21 |           |
| Toluene*                        | 0.067  | 0.025           | 02/10/2023 | ND           | 2.07 | 103        | 2.00          | 3.93 |           |
| Ethylbenzene*                   | 0.379  | 0.025           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 4.69 |           |
| Total Xylenes*                  | 3.54   | 0.075           | 02/10/2023 | ND           | 6.29 | 105        | 6.00          | 4.19 |           |
| Total BTEX                      | 3.99   | 0.150           | 02/10/2023 | ND           |      |            |               |      |           |
| Surrogate: Dibromofluoromethane | 99.8   | % 86.7-11       | 1          |              |      |            |               |      |           |
| Surrogate: Toluene-d8           | 111 9  | 89.3-11         | 0          |              |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 234    | % 88.2-10       | 8          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B            | mg     | /kg             | Analyze    | d By: AC     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                        | <16.0  | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                       | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      | S-04      |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                     | 1390   | 10.0            | 02/10/2023 | ND           | 189  | 94.7       | 200           | 1.45 |           |
| DRO >C10-C28*                   | 2170   | 10.0            | 02/10/2023 | ND           | 177  | 88.7       | 200           | 8.70 |           |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/10/2023 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane       | 229    | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane   | 115 9  | % 49.1-14       | 8          |              |      |            |               |      |           |

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 1 @ 2-4' (H230547-02)

| BTEX 8260B                      | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      | S-04      |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                        | <0.500 | 0.500           | 02/10/2023 | ND           | 1.89 | 94.4       | 2.00          | 5.21 |           |
| Toluene*                        | 0.966  | 0.500           | 02/10/2023 | ND           | 2.07 | 103        | 2.00          | 3.93 |           |
| Ethylbenzene*                   | 3.11   | 0.500           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 4.69 |           |
| Total Xylenes*                  | 13.0   | 1.50            | 02/10/2023 | ND           | 6.29 | 105        | 6.00          | 4.19 |           |
| Total BTEX                      | 17.1   | 3.00            | 02/10/2023 | ND           |      |            |               |      |           |
| Surrogate: Dibromofluoromethane | 101    | % 86.7-11       | 1          |              |      |            |               |      |           |
| Surrogate: Toluene-d8           | 102    | % 89.3-11       | 0          |              |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene | 113 9  | % 88.2-10       | 8          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B            | mg     | /kg             | Analyze    | d By: AC     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                        | 48.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                       | mg     | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                     | 290    | 10.0            | 02/10/2023 | ND           | 189  | 94.7       | 200           | 1.45 |           |
| DRO >C10-C28*                   | 467    | 10.0            | 02/10/2023 | ND           | 177  | 88.7       | 200           | 8.70 |           |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/10/2023 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane       | 131    | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane   | 120    | % 49.1-14       | 8          |              |      |            |               |      |           |

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 1 @ 4.2' (H230547-03)

| BTEX 8260B                      | mg,    | kg              | Analyze    | d By: MS     |      |            |               |       | S-04      |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.500 | 0.500           | 02/10/2023 | ND           | 1.89 | 94.4       | 2.00          | 5.21  |           |
| Toluene*                        | 1.71   | 0.500           | 02/10/2023 | ND           | 2.07 | 103        | 2.00          | 3.93  |           |
| Ethylbenzene*                   | 4.13   | 0.500           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 4.69  |           |
| Total Xylenes*                  | 15.2   | 1.50            | 02/10/2023 | ND           | 6.29 | 105        | 6.00          | 4.19  |           |
| Total BTEX                      | 21.1   | 3.00            | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 97.9   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 99.0   | % 89.3-11       | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 114 9  | 88.2-10         | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg     | 'kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 32.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg     | 'kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | 504    | 10.0            | 02/09/2023 | ND           | 196  | 98.0       | 200           | 0.636 | QM-07     |
| DRO >C10-C28*                   | 704    | 10.0            | 02/09/2023 | ND           | 183  | 91.6       | 200           | 0.694 | QM-07     |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/09/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 140    | 48.2-13         | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 100    | % 49.1-14       | 8          |              |      |            |               |       |           |

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 2 @ 0-2' (H230547-04)

| BTEX 8260B                      | mg     | /kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.500 | 0.500           | 02/10/2023 | ND           | 1.89 | 94.4       | 2.00          | 5.21  |           |
| Toluene*                        | 0.843  | 0.500           | 02/10/2023 | ND           | 2.07 | 103        | 2.00          | 3.93  |           |
| Ethylbenzene*                   | 1.57   | 0.500           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 4.69  |           |
| Total Xylenes*                  | 9.88   | 1.50            | 02/10/2023 | ND           | 6.29 | 105        | 6.00          | 4.19  |           |
| Total BTEX                      | 12.3   | 3.00            | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 99.9   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 102    | % 89.3-11       | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 120    | % 88.2-10       | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg     | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 64.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg     | /kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | 2560   | 10.0            | 02/09/2023 | ND           | 196  | 98.0       | 200           | 0.636 |           |
| DRO >C10-C28*                   | 3570   | 10.0            | 02/09/2023 | ND           | 183  | 91.6       | 200           | 0.694 |           |
| EXT DRO >C28-C36                | 29.2   | 10.0            | 02/09/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 338    | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 107    | % 49.1-14       | 8          |              |      |            |               |       |           |

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 2 @ 2-4' (H230547-05)

| Result<br><0.500<br><b>4.99</b><br><b>7.67</b> | Reporting Limit<br>0.500<br>0.500<br>0.500  | Analyzed<br>02/10/2023<br>02/10/2023  | Method Blank<br>ND<br>ND  | BS<br>1.90  | % Recovery<br>94.9  | True Value QC<br>2.00  | RPD<br>4.02  | Qualifier   |
|--|---|---|---|---|---|--|--|---|
| 4.99<br>7.67                                   | 0.500   |   |   | 1.90  | 94.9  | 2.00   | 4 02   |   |
| 7.67   |   | 02/10/2023  |   |   |   |  | 4.02   |   |
|  | 0 500   |   | ND  | 2.07  | 104   | 2.00   | 3.63   |   |
| 47.0   | 0.500   | 02/10/2023  | ND  | 2.13  | 106   | 2.00   | 3.88   |   |
| 47.0   | 1.50  | 02/10/2023  | ND  | 6.25  | 104   | 6.00   | 4.30   |   |
| 59.6   | 3.00  | 02/10/2023  | ND  |   |   |  |  |   |
| 98.5   | % 86.7-11   | 1   |   |   |   |  |  |   |
| 101 9  | 89.3-11   | 0   |   |   |   |  |  |   |
| 117 9  | 88.2-10   | 8   |   |   |   |  |  |   |
| mg/  | ′kg   | Analyze   | d By: AC  |   |   |  |  |   |
| Result   | Reporting Limit   | Analyzed  | Method Blank  | BS  | % Recovery  | True Value QC  | RPD  | Qualifier   |
| 32.0   | 16.0  | 02/09/2023  | ND  | 416   | 104   | 400  | 3.77   |   |
| mg/  | ′kg   | Analyze   | d By: MS  |   |   |  |  | S-04  |
| Result   | Reporting Limit   | Analyzed  | Method Blank  | BS  | % Recovery  | True Value QC  | RPD  | Qualifier   |
| 2600   | 10.0  | 02/09/2023  | ND  | 196   | 98.0  | 200  | 0.636  |   |
| 3050   | 10.0  | 02/09/2023  | ND  | 183   | 91.6  | 200  | 0.694  |   |
| 26.6   | 10.0  | 02/09/2023  | ND  |   |   |  |  |   |
| 313 9  | % 48.2-13   | 4   |   |   |   |  |  |   |
| 105 9  | % 49.1-14   | 8   |   |   |   |  |  |   |
|  | 98.5<br>1019<br>1179<br>mg/<br>Result<br>32.0<br>mg/<br>Result<br>2600<br>3050<br>26.6<br>313 9 | 59.6     3.00       98.5 %     86.7-11       101 %     89.3-11       101 %     89.3-11       117 %     88.2-10       mg/kg        Result     Reporting Limit       32.0     16.0       mg/kg     10.0       2600     10.0       3050     10.0       26.6     10.0       313 %     48.2-13 | 59.6       3.00       02/10/2023         98.5 %       86.7-111         101 %       89.3-110         117 %       88.2-108         mg/kg       Analyzed         32.0       16.0       02/09/2023         mg/kg       Analyzed         Result       Reporting Limit       Analyzed         2600       10.0       02/09/2023         3050       10.0       02/09/2023         26.6       10.0       02/09/2023         313 %       48.2-134 | 59.6       3.00       02/10/2023       ND         98.5 %       86.7-111       101 %       89.3-110         101 %       89.3-110       117 %       88.2-108         117 %       88.2-108       Method Blank         32.0       16.0       02/09/2023       ND         mg/kg       Analyzed       Method Blank         32.0       16.0       02/09/2023       ND         mg/kg       Analyzed       Method Blank         2600       10.0       02/09/2023       ND         3050       10.0       02/09/2023       ND         26.6       10.0       02/09/2023       ND         313 %       48.2-134       X8.2-134       X8.2-134 | 59.6       3.00       02/10/2023       ND         98.5 %       86.7-111       101 %       89.3-110         101 %       89.3-110       117 %       88.2-108         mg/kg       Analyzed       Method Blank       BS         32.0       16.0       02/09/2023       ND       416         mg/kg       Analyzed       Method Blank       BS         32.0       16.0       02/09/2023       ND       416         mg/kg       Analyzed       Method Blank       BS         2600       10.0       02/09/2023       ND       196         3050       10.0       02/09/2023       ND       183         26.6       10.0       02/09/2023       ND       183         313 %       48.2-134       48.2-134       183 | 59.6       3.00       02/10/2023       ND         98.5 %       86.7-111       101 %       89.3-110         101 %       89.3-110       117 %       88.2-108         mg/kg       Analyzed       Method Blank       BS       % Recovery         32.0       16.0       02/09/2023       ND       416       104         mg/kg       Analyzed       Method Blank       BS       % Recovery         32.0       16.0       02/09/2023       ND       416       104         mg/kg       Analyzed       Method Blank       BS       % Recovery         2600       10.0       02/09/2023       ND       196       98.0         3050       10.0       02/09/2023       ND       183       91.6         26.6       10.0       02/09/2023       ND       183       91.6         313 %       48.2-134       48.2-134       50.0       50.0       50.0 | 59.6       3.00       02/10/2023       ND         98.5 %       86.7-111         101 %       89.3-110         117 %       88.2-108         mg/kg       Analyzed         Method Blank       BS       % Recovery         True Value QC         32.0       16.0       02/09/2023         ND       416       104         400       400         mg/kg       Analyzed       Method Blank         Result       Reporting Limit       Analyzed         Result       Reporting Limit       Analyzed         Method Blank       BS       % Recovery         True Value QC       02/09/2023       ND         Result       Reporting Limit       Analyzed       Method Blank         10.0       02/09/2023       ND       196       98.0       200         3050       10.0       02/09/2023       ND       183       91.6       200         26.6       10.0       02/09/2023       ND       183       91.6       200         3/3 %       48.2-134       48.2-134       48.2-134       48.2-134       48.2-134 | 59.6       3.00       02/10/2023       ND         98.5 %       86.7-111         101 %       89.3-110         117 %       88.2-108         mg/k       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD         32.0       16.0       02/09/2023       ND       416       104       400       3.77         mg/k       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD         32.0       16.0       02/09/2023       ND       416       104       400       3.77         mg/k       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD         2600       10.0       02/09/2023       ND       196       98.0       200       0.636         3050       10.0       02/09/2023       ND       183       91.6       200       0.694         26.6       10.0       02/09/2023       ND       183       91.6       200       0.694         313 ½       48.2-134       48.2-134       48.2-134       48.2-134       48.2-134       48.2-134 |

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 2 @ 4.2' (H230547-06)

| BTEX 8260B                      | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.500 | 0.500           | 02/10/2023 | ND           | 1.90 | 94.9       | 2.00          | 4.02  |           |
| Toluene*                        | 3.15   | 0.500           | 02/10/2023 | ND           | 2.07 | 104        | 2.00          | 3.63  |           |
| Ethylbenzene*                   | 5.67   | 0.500           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 3.88  |           |
| Total Xylenes*                  | 34.7   | 1.50            | 02/10/2023 | ND           | 6.25 | 104        | 6.00          | 4.30  |           |
| Total BTEX                      | 43.5   | 3.00            | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 96.8   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 98.5   | % 89.3-11       | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 117 9  | 88.2-10         | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg,    | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 48.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg     | /kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | 1710   | 10.0            | 02/09/2023 | ND           | 196  | 98.0       | 200           | 0.636 |           |
| DRO >C10-C28*                   | 2050   | 10.0            | 02/09/2023 | ND           | 183  | 91.6       | 200           | 0.694 |           |
| EXT DRO >C28-C36                | 18.6   | 10.0            | 02/09/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 242    | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 105    | % 49.1-14       | 8          |              |      |            |               |       |           |

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 7 @ 0-2' (H230547-07)

| BTEX 8260B                      | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 1.90 | 94.9       | 2.00          | 4.02  |           |
| Toluene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 2.07 | 104        | 2.00          | 3.63  |           |
| Ethylbenzene*                   | <0.025 | 0.025           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 3.88  |           |
| Total Xylenes*                  | <0.075 | 0.075           | 02/10/2023 | ND           | 6.25 | 104        | 6.00          | 4.30  |           |
| Total BTEX                      | <0.150 | 0.150           | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 93.4   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 103    | 89.3-11         | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 99.8   | % 88.2-10       | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg,    | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 48.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | <10.0  | 10.0            | 02/09/2023 | ND           | 196  | 98.0       | 200           | 0.636 |           |
| DRO >C10-C28*                   | <10.0  | 10.0            | 02/09/2023 | ND           | 183  | 91.6       | 200           | 0.694 |           |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/09/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 87.6   | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 95.0   | % 49.1-14       | 8          |              |      |            |               |       |           |

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### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 7 @ 2-4' (H230547-08)

| BTEX 8260B                      | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 1.90 | 94.9       | 2.00          | 4.02  |           |
| Toluene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 2.07 | 104        | 2.00          | 3.63  |           |
| Ethylbenzene*                   | <0.025 | 0.025           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 3.88  |           |
| Total Xylenes*                  | <0.075 | 0.075           | 02/10/2023 | ND           | 6.25 | 104        | 6.00          | 4.30  |           |
| Total BTEX                      | <0.150 | 0.150           | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 94.9   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 102    | 89.3-11         | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 99.8   | % 88.2-10       | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg,    | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 32.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | <10.0  | 10.0            | 02/09/2023 | ND           | 196  | 98.0       | 200           | 0.636 |           |
| DRO >C10-C28*                   | <10.0  | 10.0            | 02/09/2023 | ND           | 183  | 91.6       | 200           | 0.694 |           |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/09/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 90.5   | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 96.8   | % 49.1-14       | 8          |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 7 @ 4.2' (H230547-09)

| BTEX 8260B                      | mg     | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 1.90 | 94.9       | 2.00          | 4.02  |           |
| Toluene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 2.07 | 104        | 2.00          | 3.63  |           |
| Ethylbenzene*                   | <0.025 | 0.025           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 3.88  |           |
| Total Xylenes*                  | <0.075 | 0.075           | 02/10/2023 | ND           | 6.25 | 104        | 6.00          | 4.30  |           |
| Total BTEX                      | <0.150 | 0.150           | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 94.6   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 100    | % 89.3-11       | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 99.2   | % 88.2-10       | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg     | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 32.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg     | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | <10.0  | 10.0            | 02/09/2023 | ND           | 196  | 98.0       | 200           | 0.636 |           |
| DRO >C10-C28*                   | <10.0  | 10.0            | 02/09/2023 | ND           | 183  | 91.6       | 200           | 0.694 |           |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/09/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 90.0   | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 95.7   | % 49.1-14       | 8          |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 8 @ 0-2' (H230547-10)

| BTEX 8260B                      | mg,    | ′kg             | Analyze    | d By: MS     |      |            |               |       |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 1.90 | 94.9       | 2.00          | 4.02  |           |
| Toluene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 2.07 | 104        | 2.00          | 3.63  |           |
| Ethylbenzene*                   | <0.025 | 0.025           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 3.88  |           |
| Total Xylenes*                  | <0.075 | 0.075           | 02/10/2023 | ND           | 6.25 | 104        | 6.00          | 4.30  |           |
| Total BTEX                      | <0.150 | 0.150           | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 96.3   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 102    | 89.3-11         | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 101    | % 88.2-10       | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg,    | ′kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 16.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg,    | ′kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | <10.0  | 10.0            | 02/09/2023 | ND           | 196  | 98.0       | 200           | 0.636 |           |
| DRO >C10-C28*                   | <10.0  | 10.0            | 02/09/2023 | ND           | 183  | 91.6       | 200           | 0.694 |           |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/09/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 88.6   | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 95.0   | % 49.1-14       | 8          |              |      |            |               |       |           |

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 8 @ 2-4' (H230547-11)

| BTEX 8260B                      | mg,    | ′kg             | Analyze    | d By: MS     |      |            |               |       |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 1.90 | 94.9       | 2.00          | 4.02  |           |
| Toluene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 2.07 | 104        | 2.00          | 3.63  |           |
| Ethylbenzene*                   | <0.025 | 0.025           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 3.88  |           |
| Total Xylenes*                  | <0.075 | 0.075           | 02/10/2023 | ND           | 6.25 | 104        | 6.00          | 4.30  |           |
| Total BTEX                      | <0.150 | 0.150           | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 94.7   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 103    | 89.3-11         | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 100    | % 88.2-10       | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg,    | ′kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 48.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg,    | ′kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | <10.0  | 10.0            | 02/09/2023 | ND           | 196  | 98.0       | 200           | 0.636 |           |
| DRO >C10-C28*                   | <10.0  | 10.0            | 02/09/2023 | ND           | 183  | 91.6       | 200           | 0.694 |           |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/09/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 88.4   | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 94.4   | % 49.1-14       | 8          |              |      |            |               |       |           |

### Cardinal Laboratories

### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

| Received:         | 02/08/2023             | Sampling Date:      | 02/07/2023     |
|-------------------|------------------------|---------------------|----------------|
| Reported:         | 02/13/2023             | Sampling Type:      | Soil           |
| Project Name:     | RIO STATE #003 RELEASE | Sampling Condition: | Cool & Intact  |
| Project Number:   | NONE GIVEN             | Sample Received By: | Tamara Oldaker |
| Project Location: | MURCHISON- EDDY CO.    |                     |                |

### Sample ID: SSA - 8 @ 4.2' (H230547-12)

| BTEX 8260B                      | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
|---------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 1.90 | 94.9       | 2.00          | 4.02  |           |
| Toluene*                        | <0.025 | 0.025           | 02/10/2023 | ND           | 2.07 | 104        | 2.00          | 3.63  |           |
| Ethylbenzene*                   | <0.025 | 0.025           | 02/10/2023 | ND           | 2.13 | 106        | 2.00          | 3.88  |           |
| Total Xylenes*                  | <0.075 | 0.075           | 02/10/2023 | ND           | 6.25 | 104        | 6.00          | 4.30  |           |
| Total BTEX                      | <0.150 | 0.150           | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: Dibromofluoromethane | 92.1   | % 86.7-11       | 1          |              |      |            |               |       |           |
| Surrogate: Toluene-d8           | 100    | 89.3-11         | 0          |              |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene | 99.3   | % 88.2-10       | 8          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B            | mg,    | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                        | 32.0   | 16.0            | 02/09/2023 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                       | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                         | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                     | <10.0  | 10.0            | 02/10/2023 | ND           | 196  | 98.0       | 200           | 0.636 |           |
| DRO >C10-C28*                   | <10.0  | 10.0            | 02/10/2023 | ND           | 183  | 91.6       | 200           | 0.694 |           |
| EXT DRO >C28-C36                | <10.0  | 10.0            | 02/10/2023 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane       | 95.4   | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane   | 102    | % 49.1-14       | 8          |              |      |            |               |       |           |

### 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.                   |
|-------|--|
| 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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

## aboratories 101 East Marland, Hobbs, NM 88240

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Company manner K. J., HICKS Consultation   |  |  |
|--|--|--|
| Project Manager: Kristin Pope  | P.O. #   |  |
| Address: 901 Rio Grande Blvd NW, Suite F-142   |  |  |
| City: Albuquerque State: NM  | Zip: 87104 Attn: Randy   |  |
| e #  | Address:   |  |
| Project #: Project Owner:  | r: Murchison City:   |  |
| Project Name: Rio St. #003 Release   | State: Zip:  |  |
| m: Eddy County   | Phone #:   | ,  |
| e-mular Name: Kristin Done   |  |  |
| FOR LAB USE ONLY   | MATRIX PRESERV SAMPLING  | 2  |
| Lab I.D. Sample I.D.   | (G)RAB OR (C)OMP<br># CONTAINERS<br>GROUNDWATER<br>WASTEWATER<br>SOIL<br>OIL<br>SLUDGE<br>OTHER :<br>ACID/BASE:<br>ICE / COOL<br>OTHER :   | Chlorida<br>TPH 80<br>BTEX   |
| 1 SSA-1 @ 0-2 ft   | 1 5 7 2/1/23   |  |
| -  |  |  |
| 1 0 1  |  |  |
| -2 10  |  | KXX 800  |
| 10   |  | 10/2 XXX 1/1   |
| 17 4-4 0 4-423 4   |  |  |
| C F  |  |  |
| 1 1 10C  |  |  |
| 2  | $\square$  | 136 XXXIIIIIII   |
| PLEASE NOTE: Labelity and Damages. Cardinal's liability and client's exclusive namedy for any claim anising whether based is contractor tort, shall be limited to be amount point or the applicable analyses. All claims including those for negligence and any other cause whatsoerer shall be deemide waived unless made in writing and received by Cardinal which 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoerer shall be deemide waived unless made in writing and received by Cardinal which 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoerer shall be deemide and any unless of the specific to be of ports incurred by client, its subaiditaries, | schulwe namedy for any claim anising whether based is contract or bot, shall be limited to the announced or<br>what so ever shall be deemed waived unless made in writing an one evelved by Cardinal within 30 diays after or<br>what so ever shall be deemed waived unless made in writing and to so of uses, or loss of profils incurred by clie   | para or yne eawn nor w ew<br>after compiletion of the applicable<br>by client, its suboldanies.  |
| service. In no event shall Curdinal be lable for encountai or consequentia variance or<br>attiliates or subcessors attiling out of or related to the performance of services hereunders by CO<br>Relinquished By: Date: ///  | y Cardinal, regardless of whether such claim is based upon any of the above statist reasons of the above statist reasons of the above statist reasons of the store store statist reasons of the store statist reasons of the store statist reasons of the store store store store statist reasons of the store stor | Verbal Result:  Vestal Result:  Verbal Result:  Verbal Result:  Verbal Result:  Vestal Result are emailed. Please provide Email address: |
| Con Time   | I hundre low   | kristin@rthicksconsult.com, R@rthicksconsult.com   |
| Relinquisted By Date: 0000   | Received by:<br>Munto Wilder Sec   |  |
| Delivered By: (Circle One) Observed Tame   | 4, 6 Sample Condition CHECKED BY:<br>Cool Intact (Initiats)  | Turnaround Time: Standard Z Bacteria (only) Sample Condition   |

## 101 East Marland, Hobbs, NM 88240 aboratories

Project Manager: Kristin Pope City: Albuquerque Address: 901 Rio Grande Blvd NW, Suite F-142 Company Name: Project Name: Project #: Project Location: Eddy County, NN Phone #: Sampler Name: Relinquished By: analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived service. In no event shall Cardinal be liable for incidental or cons H230547 LEASE NOTE: Liability and FOR LAB USE ONLY Lab I.D. 505-266-5004 0 Rio St. #003 release SSA-8 R.T. Hicks Consultants SSA-Kristin Pope (575) 393-2326 FAX (575) 393-2476 Sample I.D. 0 6 2.4 \* 4 Fax #: Time: OScu Date: 823 Project Owner: rental damages, including without limitation, business State: NM \$ ive remedy for any claim hereunder by Zip: (G)RAB OR (C)OMP Received By: Murchison # CONTAINERS arising whether based in contract or tort, shall 87104 GROUNDWATER niess WASTEWATER made in writing and received by Cardinal within 30 days after completion of the ap MATRIX SOIL inten OIL ions, loss of use, or loss of profits incurred by client, its subsidiaries SLUDGE State: P.O. #: City: Attn: Randy Company: R.T. Hicks is based upon an Fax #: Address: OTHER Phone #: ACID/BASE: PRESERV ICE / COOL BILL TO OTHER Zip: 2/7/2023 DATE 11 SAMPLING paid by the client for the 1043 1046 kristin@rthicksconsult.com, R@rthicksconsult.com REMARKS: TIME hlorid licable 80/5M RT F ANALYSIS REQUEST

Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Relinquished By

Date:

8-23 N

Received By

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Observed

......

20

Sample Condition

CHECKED BY:

Turnaround Time:

(Initials

0

Thermometer ID orrection Factor

#113 -0.5°C

> Rush Standard

Bacteria (only) Sample Condition

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Released to Imaging: 9/30/2024 10:20:23 AM

Cool Intact

Corrected Temp. °C Observed Temp.

Corrected Temp.

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Cool Intact

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ARDINA



June 12, 2024

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: RIO STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 06/05/24 16:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. 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



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

### Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: SP 1 - SURF (H243207-01)

| BTEX 8021B                           | mg     | /kg             | Analyze    | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80  |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1  |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 107    | % 71.5-13       | 4          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 48.0   | 16.0            | 06/07/2024 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 193  | 96.3       | 200           | 1.94  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 214  | 107        | 200           | 0.944 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 106    | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 101    | % 49.1-14       | 8          |              |      |            |               |       |           |

### **Cardinal Laboratories**

\*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: SP 1 - 1' (H243207-02)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80  |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1  |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 107    | % 71.5-13       | 4          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: AC     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 160    | 16.0            | 06/07/2024 | ND           | 432  | 108        | 400           | 0.00  |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/07/2024 | ND           | 193  | 96.3       | 200           | 1.94  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/07/2024 | ND           | 214  | 107        | 200           | 0.944 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 74.8   | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 76.0   | % 49.1-14       | 8          |              |      |            |               |       |           |

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: SP 2 - SURF (H243207-03)

| BTEX 8021B                           | mg/    | kg              | Analyze    | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80  |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1  |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 114 9  | % 71.5-13       | 4          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg/    | 'kg             | Analyze    | d By: HM     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 800    | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                            | mg/    | 'kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/07/2024 | ND           | 193  | 96.3       | 200           | 1.94  |           |
| DRO >C10-C28*                        | 101    | 10.0            | 06/07/2024 | ND           | 214  | 107        | 200           | 0.944 |           |
| EXT DRO >C28-C36                     | 34.9   | 10.0            | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 87.6   | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 91.8   | % 49.1-14       | 8          |              |      |            |               |       |           |

### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: SP 2 - 2' (H243207-04)

| BTEX 8021B                           | mg     | /kg             | Analyze    | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80  |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39  |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1  |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 114    | % 71.5-13       | 4          |              |      |            |               |       |           |
| Chloride, SM4500CI-B                 | mg     | /kg             | Analyze    | d By: HM     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 80.0   | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                            | mg     | /kg             | Analyze    | d By: MS     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/07/2024 | ND           | 193  | 96.3       | 200           | 1.94  |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/07/2024 | ND           | 214  | 107        | 200           | 0.944 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 108    | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 112    | % 49.1-14       | 8          |              |      |            |               |       |           |

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

### Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: SP 3 - SURF (H243207-05)

| BTEX 8021B                           | mg     | /kg             | Analyze    | d By: JH     |      |            |               |       |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80  |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35  |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39  | GC-NC     |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1  |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 4-Bromofluorobenzene (PID | 131    | % 71.5-13       | 4          |              |      |            |               |       |           |
| Chloride, SM4500Cl-B                 | mg     | /kg             | Analyze    | d By: HM     |      |            |               |       |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| Chloride                             | 400    | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77  |           |
| TPH 8015M                            | mg     | /kg             | Analyze    | d By: MS     |      |            |               |       | S-04      |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD   | Qualifier |
| GRO C6-C10*                          | 105    | 10.0            | 06/07/2024 | ND           | 193  | 96.3       | 200           | 1.94  |           |
| DRO >C10-C28*                        | 4960   | 10.0            | 06/07/2024 | ND           | 214  | 107        | 200           | 0.944 |           |
| EXT DRO >C28-C36                     | 267    | 10.0            | 06/07/2024 | ND           |      |            |               |       |           |
| Surrogate: 1-Chlorooctane            | 159    | % 48.2-13       | 4          |              |      |            |               |       |           |
| Surrogate: 1-Chlorooctadecane        | 106    | % 49.1-14       | 8          |              |      |            |               |       |           |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: SP 3 - 1' (H243207-06)

| BTEX 8021B                           | mg     | /kg             | Analyze    | d By: JH     |      |            |               |      | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 | GC-NC     |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 | GC-NC     |
| Total Xylenes*                       | 0.535  | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 | GC-NC1    |
| Total BTEX                           | 0.535  | 0.300           | 06/07/2024 | ND           |      |            |               |      | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 285    | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg     | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 80.0   | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg     | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | 243    | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | 1090   | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 116    | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 87.1   | % 49.1-14       | 8          |              |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: SP 4 - SURF (H243207-07)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |      | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/10/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/10/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | 0.107  | 0.050           | 06/10/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 | GC-NC1    |
| Total Xylenes*                       | 0.524  | 0.150           | 06/10/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 | GC-NC1    |
| Total BTEX                           | 0.630  | 0.300           | 06/10/2024 | ND           |      |            |               |      | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 146    | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 16.0   | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | 65.2   | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | 3420   | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 | QM-07     |
| EXT DRO >C28-C36                     | 467    | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 85.8   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 89.2   | % 49.1-14       | 8          |              |      |            |               |      |           |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: SP 4 - 1' (H243207-08)

| BTEX 8021B                           | mg     | /kg             | Analyze    | d By: JH     |      |            |               |      | S-04      |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.200 | 0.200           | 06/10/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.200 | 0.200           | 06/10/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 | GC-NC     |
| Ethylbenzene*                        | 2.60   | 0.200           | 06/10/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 | GC-NC1    |
| Total Xylenes*                       | 16.8   | 0.600           | 06/10/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 | GC-NC1    |
| Total BTEX                           | 19.4   | 1.20            | 06/10/2024 | ND           |      |            |               |      | GC-NC1    |
| Surrogate: 4-Bromofluorobenzene (PID | 266    | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg     | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 32.0   | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg     | /kg             | Analyze    | d By: MS     |      |            |               |      | S-04      |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | 797    | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | 1650   | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | 24.2   | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 180    | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 87.6   | % 49.1-14       | 8          |              |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

#### Sample ID: HZ 1 - SURF (H243207-09)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 110 9  | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 84.4   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 85.9   | % 49.1-14       | 8          |              |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: HZ 1 - 1' (H243207-10)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 108    | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 79.9   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 80.5   | % 49.1-14       | 8          |              |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

#### Sample ID: HZ 2 - SURF (H243207-11)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 105    | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 84.4   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 84.7   | % 49.1-14       | 8          |              |      |            |               |      |           |

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Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: HZ 2 - 1' (H243207-12)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 106    | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 63.9   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 62.5   | % 49.1-14       | 8          |              |      |            |               |      |           |

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

#### Sample ID: HZ 3 - SURF (H243207-13)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 103    | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500CI-B                 | mg,    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 58.1   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 59.6   | % 49.1-14       | 8          |              |      |            |               |      |           |

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

# Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

#### Sample ID: HZ 3 - 1' (H243207-14)

| BTEX 8021B                           | mg/    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9  | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg/    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 66.3   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 64.6   | % 49.1-14       | 8          |              |      |            |               |      |           |

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

#### Sample ID: HZ 4 - SURF (H243207-15)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9  | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg/    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 73.9   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 71.7   | % 49.1-14       | 8          |              |      |            |               |      |           |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

| Received:         | 06/05/2024               | Sampling Date:      | 06/04/2024       |
|-------------------|--------------------------|---------------------|------------------|
| Reported:         | 06/12/2024               | Sampling Type:      | Soil             |
| Project Name:     | RIO STATE #3             | Sampling Condition: | Cool & Intact    |
| Project Number:   | MURCHISON                | Sample Received By: | Shalyn Rodriguez |
| Project Location: | UL/ D SEC 36 T18S - R24E |                     |                  |

### Sample ID: HZ 4 - 1' (H243207-16)

| BTEX 8021B                           | mg,    | /kg             | Analyze    | d By: JH     |      |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.70 | 85.0       | 2.00          | 4.80 |           |
| Toluene*                             | <0.050 | 0.050           | 06/07/2024 | ND           | 1.91 | 95.4       | 2.00          | 4.35 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 06/07/2024 | ND           | 2.08 | 104        | 2.00          | 9.39 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 06/07/2024 | ND           | 6.32 | 105        | 6.00          | 10.1 |           |
| Total BTEX                           | <0.300 | 0.300           | 06/07/2024 | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PID | 112 9  | % 71.5-13       | 4          |              |      |            |               |      |           |
| Chloride, SM4500Cl-B                 | mg,    | /kg             | Analyze    | d By: HM     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | <16.0  | 16.0            | 06/07/2024 | ND           | 416  | 104        | 400           | 3.77 |           |
| TPH 8015M                            | mg,    | /kg             | Analyze    | d By: MS     |      |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10*                          | <10.0  | 10.0            | 06/06/2024 | ND           | 176  | 87.8       | 200           | 5.10 |           |
| DRO >C10-C28*                        | <10.0  | 10.0            | 06/06/2024 | ND           | 168  | 83.8       | 200           | 2.73 |           |
| EXT DRO >C28-C36                     | <10.0  | 10.0            | 06/06/2024 | ND           |      |            |               |      |           |
| Surrogate: 1-Chlorooctane            | 65.4   | % 48.2-13       | 4          |              |      |            |               |      |           |
| Surrogate: 1-Chlorooctadecane        | 63.4   | % 49.1-14       | 8          |              |      |            |               |      |           |

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#### \*=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.                                    |
|--------|---|
| QM-07  | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.                  |
| GC-NC1 | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds. |
| GC-NC  | 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.                         |
| 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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Denne Minnes  |   |   |   |   |   |   |                             |       |  |                  |                     |             |   |
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| Ducion Monthle  |   | LC  |   |   | B   | BILL TO   |                             |       |  |                  | ANALYSIS            | SIS REQUEST |   |
| lan   | : Uaniel Dominguez  | Jez   |   |   | P.O. #:   |   |                             |       |  | -                |                     |             |   |
| Address: 4024   | 4 Plains Hwy  |   |   |   | Company   | Murchison Oil & Gas   | )il & Gas                   |       |  |                  | _                   |             |   |
| VO  | 'n  | State: NM   | Zip:  | 88260   | 6 I   | Boans   |                             |       |  |                  |                     |             |   |
| Phone #: 575  | 575 393-3386  | Fax #:  |   |   | Address: 533  | 5325 Sierra V   | Vista                       |       |  |                  |                     |             |   |
| Project #:  |   | Project Owner:  |   | Murchison Oil & Gas   | City: Carlsbad  | ad  |                             |       |  |                  |                     |             |   |
| Project Name:   | Rio State #3  |   |   |   | NM  | Zip: 88230  | 0                           |       |  |                  |                     |             |   |
| Project Location:   | UL/ D Sec 36  | T18S - R24E   |   |   | #   | 575 706-0667  |                             |       |  |                  | _                   |             |   |
| Sampler Name:   | Jerry Heidelberg  |   |   |   |   |   |                             |       |  |                  |                     |             |   |
| FOR LAB USE ONLY  | -   |   |   |   | FdX #.  |   |                             | _     | _  |                  |                     |             |   |
| FOR LAB USE ONLY  |   |   | ΛP.   | MATRIX  | PRESERV.  | SAMPLING  | NG                          |       |  |                  |                     |             |   |
| Lab I.D.  | Sample I.D.   | 1.D.  | OR (C)O   | WATER<br>WATER  | ASE:<br>DOL   |   |                             | de    |  | 8021             |                     |             |   |
| Haysaot   |   |   |   |   | OTHER<br>CID/B/<br>CE / CC<br>OTHER                         | DATE  | TIME                        | hlori | PH   | STEX             |                     |             |   |
| -   | SP1-Surf  | 1   | _   | X   | X   | 6/4/94  |                             | < (   | < 1  | < E              | +                   |             | - |
| 2   | SP1-1'  | -   | G 1   | X   | ×   | RIAIDA  |                             | < >   | < >  | < >              |                     |             |   |
| w   | SP2-Surf  |   | G 1   | ×   | ×   | 6/4/24  |                             | < >   | < >  | < >              |                     |             |   |
|   | SP2-2'  |   | G 1   | ×   | ×   | 6/4/24  |                             | × >   | × >  | < >              | -                   |             |   |
| S.  | SP3-Surf  |   | G 1   | ×   | ×   | 6/4/24  |                             | ×     | < >  | < >              |                     |             |   |
| 0   | SP3-1'  |   | G 1   | ×   | ×   | 6/4/24  |                             | × >   | × >  | < >              |                     |             |   |
| A   | SP4-Surf  |   | G 1   | X   | ×   | 6/4/24  |                             | ×     | ××   | ××               |                     |             |   |
| 0   | SP4-1   |   | G 1   | ×   | ×   | 6/4/24  |                             | ×     | ×  | ×                |                     |             |   |
| PLEASE NOTE: Liability and Dam<br>analyses. All claims including thos | PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tot, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waising whether based in contract or tot, shall be limited to the amount paid by the client for the | ient's exclusive remedy for<br>r cause whatsoever shall b | dy for any claim arising w  | hother based in contract or tort, sha   | rt, shall be limited to the a                               | mount paid by the   | client for the              | H     | H  |                  |                     |             |   |
| Rélinquished By:  | sors arising out of or related to the performanced By:  | e of services hereunder by                                | al damages, including without limitation, bus<br>nvices hereunder by Cardinal, regardless of<br>Date: | business interruptions, loss of use, or loss<br>s of whether such claim is based upon any | of use, or loss of profits inc<br>sed upon any of the above | of profits incurred by client, its subsidiaries<br>of the above stated reasons or otherwise | subsidiaries,<br>otherwise. |       | -  |                  |                     |             |   |
|   |   | 5   | 14  |   | ~   | -   | Fax Result:                 |       | Yes  | O No             | Add'l Phone #:      | 1e #:       |   |
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|----------------------------------|---------------------|--------------|-------------------|--|---|---|--------|----------|--------|----------|--------|----------|--------|---------|----------------------------------|--------------------|------------------|-------------------|---------------|---------------------|-------------|---------|-----------------|------------------|---|---------------------------------------|
|                                  | ey by.              | D            | Ied BY:           | In no event shall Cardinal be liable<br>or successors arising out of or relat  |   | - | HZ     | HZ       | HZ     | HZ       | HZ     | H        | H      | 112     | 1                                | E CONLT            | Name:            | ocation:          | lame: Rio     |                     | 5/5         | ovingto |                 | Manager:         | y Name:   |                                       |
| - Other:                         |                     |              |                   | for negagence and any oth<br>be liable for incidental or cor<br>f or related to the performant   | ges. Cardinal's                                     |   | HZ4-1' | HZ4-Surf | HZ3-1' | HZ3-Surf | HZ2-1' | HZ2-Surf | HZ1-1  | TUC-12D | Sample I.D.                      |                    | Jerry Heidelberg | UL/ D Sec 36 T    | o State #3    |                     | 393-3386    |         | 4024 Plains Hwy | Daniel Dominguez | (575) 393-2326 FAX (575) 393-2476<br>Hungry Horse LLC | 101 East Marland, Hobbs, NM 88240     |
| S.I.                             | Date:<br>Time:      | Time:        | Date:             | er cause whats<br>sequental dam<br>ce of services l  | client's exclusiv                                   |   |        |          |        |          |        |          |        |         | e I.D.                           |                    | ĝ                | - S8              |               | Projec              | Fax #:      | State:  |                 | Juez             | ELC   | LOI                                   |
| 4 HUD                            | × •                 | 1426         | 667               | ges,   | re remedy for any cli                               |   |        |          |        |          |        |          |        |         |                                  |                    |                  | R24E              |               | Project Owner:      |             | MN      |                 |                  | 575) 393  | DTIES                                 |
| 10                               | Receiv              | 2            | Recei             | shall be deemed waived unless made in writing and receiv<br>including without limitation, business interruptions, loss of<br>get by Cardinal, regardless of whether such claim is base | y claim arising                                     | + | G 1    | G 1      | G 1    | G 1      | G 1    | G 1      | G 1    | G 1     | (G)RAB OR (C)OMP<br># CONTAINERS | Þ,                 |                  |                   |               | Murch               |             | Zip:    |                 |                  | -2476   | 8940                                  |
| Sampl<br>Cool                    | Received By:        | Ko           | Received By:      | unless made<br>n, business in<br>hss of whether  | whether base  |   |        |          |        |          |        |          |        |         | GROUNDWATER<br>WASTEWATER        | -                  |                  |                   |               | Murchison Oil & Gas |             | : 88260 |                 |                  |   |                                       |
| Sample Condition<br>Cool Intact  |                     | are          |                   | in writing and re<br>terruptions, los  | d in contract or                                    |   | ×      | ×        | ×      | ×        | X      | X        | ×      | ×       | SOIL                             | MATRIX             |                  |                   |               | Gas                 |             | 0       |                 |                  |   |                                       |
| _                                | -                   | DN           |                   | and received by Card<br>s, loss of use, or loss<br>im is based upon any  | fort, shall be lin                                  |   |        |          |        |          | -      |          |        |         | SLUDGE<br>OTHER :<br>ACID/BASE:  | PR                 | Fax #:           | Phone #:          | State: NM     | City:               | Address:    | Attn:   | Company         | P.O.             |   |                                       |
| CHECKED BY:                      | C                   | 2d           | AADOOR AND AN     | ved by Cardinal within 30 days after<br>use, or loss of profits incurred by cli<br>d upon any of the above stated read   | niled to the arm                                    |   | ×      | ×        | ×      | ×        | ×      | ×        | X      | ×       | ICE / COOL<br>OTHER :            | PRESERV.           |                  | e #: 575          |               | Carlsbad            | ess: 532    | Greg    | pany            | *                | R   |                                       |
| s) BY:                           |                     | )            | Sinced rotate     | ent,   | tount paid by th                                    |   | 6/4/24 | 6/4/24   | 6/4/24 | 6/4/24   | 6/4/24 | 6/4/24   | 6/4/24 | 6/4/24  | DATE                             | SAMPLING           |                  | 575 706-0667      | Zip: 88230    | ad                  | 5325 Sierra | Boans   | Murchison       | 10               | RILI TO   |                                       |
|                                  | Email               | REMARKS:     | Phone Rest        | after completion of the app<br>of the subsidiaries,<br>freecome or otherwise   | a cliant for the                                    |   |        |          |        |          |        | -        |        |         | TIME                             | ING                |                  | 7                 | 30            |                     | Vista       |         | Oil & Gas       |                  |   | 0                                     |
|                                  | Email results to:   | RKS:         | sult:             | licable  |   |   | ×      | × ;      | × >    | × ;      | ×      | ×        | ×      | ×       | Chloride                         |                    |                  |                   | -             | _                   |             |         | _               | +                |   | 114-0                                 |
| go                               |                     | 1 Yes        | ] Yes             |  |   |   | ×      | ×        | < >    | × >      | × :    | ×        | ×      | ×       | ТРН                              |                    |                  |                   |               |                     |             |         |                 |                  |   | 1-00                                  |
| good is@dittil.com               | pm@hungry-horse.com | I No         | O No              |  | -   |   | ×      | × >      | < >    | < >      | < >    | ×        | ×      | ×       | BTEX 8021                        | _                  |                  |                   |               |                     |             |         |                 | _                |   | 10101                                 |
| JITHI, COL                       | ry-horse            | Add'l Fax #: | Add'l P           |  |   |   |        | 1        |        |          | -      | 1        | 1      | -       |                                  | _                  |                  |                   |               |                     |             |         |                 | ANAL             |   | DT AN                                 |
|                                  | .com                | ax #:        | hone #:           |  |   |   |        |          |        |          |        |          |        |         |                                  |                    |                  |                   |               |                     |             |         |                 | LYSIS            |   | ID AN                                 |
|                                  |                     |              |                   |  |   | - | +      | +        | +      | -        | -      | -        |        | -       | 1                                | _                  |                  |                   |               |                     |             |         |                 | REQUEST          |   | ALYS                                  |
|                                  |                     |              |                   |  |   |   | -      | -        |        | -        |        |          |        | +       |                                  |                    |                  |                   |               |                     | _           |         |                 | EST              |   | CHAIN-OF-COSTODT AND ANALYSIS REQUEST |
|                                  |                     |              |                   |  |   |   |        |          |        |          |        |          |        |         |                                  |                    |                  |                   |               |                     |             |         |                 |                  |   | QUE                                   |
|                                  |                     |              |                   |  | -   |   | -      | -        |        |          |        |          |        | 1       |                                  |                    |                  |                   |               |                     |             |         |                 |                  |   | ST                                    |

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

QUESTIONS

Action 386999

| QU                         | ESTIONS   |
|----------------------------|---|
| Operator:                  | OGRID:  |
| Murchison Oil and Gas, LLC | 15363   |
| 7250 Dallas Parkway        | Action Number:  |
| Plano, TX 75024            | 386999  |
|                            | Action Type:  |
|                            | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

| Prerequisites    |   |
|------------------|---|
| Incident ID (n#) | nAPP2202454641                            |
| Incident Name    | NAPP2202454641 RIO STATE 3 @ 30-015-33690 |
| Incident Type    | Oil Release                               |
| Incident Status  | Remediation Closure Report Received       |
| Incident Well    | [30-015-33690] RIO STATE #003             |

#### Location of Release Source

| Please answer all the questions in this group. |             |
|--|-------------|
| Site Name                                      | RIO STATE 3 |
| Date Release Discovered                        | 01/03/2022  |
| Surface Owner                                  | Private     |

#### Incident Details

| Please answer all the questions in this group.  |             |
|---|-------------|
| Incident Type   | Oil Release |
| Did this release result in a fire or is the result of a fire  | No          |
| Did this release result in any injuries   | No          |
| Has this release reached or does it have a reasonable probability of reaching a<br>watercourse          | Νο          |
| Has this release endangered or does it have a reasonable probability of<br>endangering public health    | Νο          |
| Has this release substantially damaged or will it substantially damage property or<br>the environment   | Νο          |
| Is this release of a volume that is or may with reasonable probability be<br>detrimental to fresh water | Νο          |

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission Crude Oil Released (bbls) Details Not answered. Cause: Freeze | Other (Specify) | Produced Water | Released: 5 BBL | Recovered: 0 BBL | Produced Water Released (bbls) Details Lost: 5 BBL Is the concentration of chloride in the produced water >10,000 mg/l Yes Cause: Freeze | Other (Specify) | Condensate | Released: 69 BBL | Recovered: 12 BBL | Lost: Condensate Released (bbls) Details **57 BBI** Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Load line valve froze and burst Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

QUESTIONS, Page 2

Action 386999

**QUESTIONS** (continued)

| Operator:                  | OGRID:  |
|----------------------------|---|
| Murchison Oil and Gas, LLC | 15363   |
| 7250 Dallas Parkway        | Action Number:  |
| Plano, TX 75024            | 386999  |
|                            | Action Type:  |
|                            | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

| Nature and Volume of Release (continued)  |  |
|---|--|
| Is this a gas only submission (i.e. only significant Mcf values reported)                             | No, according to supplied volumes this does not appear to be a "gas only" report.  |
| Was this a major release as defined by Subsection A of 19.15.29.7 NMAC                                | Yes  |
| Reasons why this would be considered a submission for a notification of a major release               | From paragraph A. "Major release" determine using:<br>(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more. |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e | e. gas only) are to be submitted on the C-129 form.  |

# Initial Response

| •  |  |
|--|--|
| The responsible party must undertake the following actions immediately unless they could create a s  | afety hazard that would result in injury.  |
| The source of the release has been stopped   | True   |
| The impacted area has been secured to protect human health and the<br>environment  | True   |
| Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices   | True   |
| All free liquids and recoverable materials have been removed and managed<br>appropriately  | True   |
| If all the actions described above have not been undertaken, explain why   | Not answered.  |
|  | ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of<br>ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of<br>valuation in the follow-up C-141 submission.   |
|  |  |
| to report and/or file certain release notifications and perform corrective actions for releat<br>the OCD does not relieve the operator of liability should their operations have failed to a | knowledge and understand that pursuant to OCD rules and regulations all operators are required<br>ases which may endanger public health or the environment. The acceptance of a C-141 report by<br>adequately investigate and remediate contamination that pose a threat to groundwater, surface<br>t does not relieve the operator of responsibility for compliance with any other federal, state, or |
| I hereby agree and sign off to the above statement   | Name: Cindy Cottrell<br>Title: Regulatory Coordinator<br>Email: ccottrell@jdmii.com<br>Date: 09/26/2024  |

District I

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#### District III

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

QUESTIONS, Page 3

Action 386999

Page 230 of 235

QUESTIONS (continued)

| Operator:                  | OGRID:  |
|----------------------------|---|
| Murchison Oil and Gas, LLC | 15363   |
| 7250 Dallas Parkway        | Action Number:  |
| Plano, TX 75024            | 386999  |
|                            | Action Type:  |
|                            | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)   | Between 100 and 500 (ft.)  |  |
|--|----------------------------|--|
| What method was used to determine the depth to ground water  | U.S. Geological Survey     |  |
| Did this release impact groundwater or surface water   | No                         |  |
| What is the minimum distance, between the closest lateral extents of the release and the following surface areas:            |                            |  |
| A continuously flowing watercourse or any other significant watercourse  | Between 500 and 1000 (ft.) |  |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)  | Between ½ and 1 (mi.)      |  |
| An occupied permanent residence, school, hospital, institution, or church  | Between 1 and 5 (mi.)      |  |
| A spring or a private domestic fresh water well used by less than five households<br>for domestic or stock watering purposes | Between 1 and 5 (mi.)      |  |
| Any other fresh water well or spring   | Between ½ and 1 (mi.)      |  |
| Incorporated municipal boundaries or a defined municipal fresh water well field  | Greater than 5 (mi.)       |  |
| A wetland  | Between ½ and 1 (mi.)      |  |
| A subsurface mine  | Greater than 5 (mi.)       |  |
| An (non-karst) unstable area   | Greater than 5 (mi.)       |  |
| Categorize the risk of this well / site being in a karst geology   | High                       |  |
| A 100-year floodplain  | Between 1 and 5 (mi.)      |  |
| Did the release impact areas not on an exploration, development, production, or storage site                                 | Νο                         |  |

#### Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 800 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 10048 GRO+DRO (EPA SW-846 Method 8015M) 10010 BTEX (EPA SW-846 Method 8021B or 8260B) 136 (EPA SW-846 Method 8021B or 8260B) Benzene 1 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 06/25/2024 On what date will (or did) the final sampling or liner inspection occur 09/18/2024 On what date will (or was) the remediation complete(d) 09/25/2024 What is the estimated surface area (in square feet) that will be reclaimed 1635 What is the estimated volume (in cubic yards) that will be reclaimed 600 What is the estimated surface area (in square feet) that will be remediated 1635 What is the estimated volume (in cubic yards) that will be remediated 600 These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required

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

QUESTIONS, Page 4

Action 386999

|  | ONS (continued)   |
|--|---|
| Operator:  | OGRID:  |
| Murchison Oil and Gas, LLC   | 15363   |
| 7250 Dallas Parkway  | Action Number:  |
| Plano, TX 75024  | 386999  |
|  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure)   |
| QUESTIONS  |   |
| Remediation Plan (continued)   |   |
| Please answer all the questions that apply or are indicated. This information must be provided to the  | e appropriate district office no later than 90 days after the release discovery date.   |
| This remediation will (or is expected to) utilize the following processes to remediate   | e / reduce contaminants:  |
| (Select all answers below that apply.)   |   |
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)  | Yes   |
| Which OCD approved facility will be used for <b>off-site</b> disposal  | HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]  |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal  | Not answered.   |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state   | No  |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility   | No  |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)  | No  |
| (In Situ) Soil Vapor Extraction  | No  |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)  | No  |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)   | No  |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)   | No  |
| Ground Water Abatement pursuant to 19.15.30 NMAC   | No  |
| OTHER (Non-listed remedial process)  | No  |
| Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed en<br>which includes the anticipated timelines for beginning and completing the remediation. | fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC  |
| to report and/or file certain release notifications and perform corrective actions for releat<br>the OCD does not relieve the operator of liability should their operations have failed to a | knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or |
| I hereby agree and sign off to the above statement   | Name: Cindy Cottrell<br>Title: Regulatory Coordinator<br>Email: ccottrell@jdmii.com<br>Date: 09/26/2024   |

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

Page 232 of 235

Action 386999

| QUESTIONS (continued)                   |   |
|---|---|
| Operator:<br>Murchison Oil and Gas, LLC | OGRID:<br>15363   |
| 7250 Dallas Parkway<br>Plano, TX 75024  | Action Number:<br>386999  |
|   | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
|   |   |

#### QUESTIONS

| Deferral Requests Only   |    |  |
|--|----|--|
| Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation. |    |  |
| Requesting a deferral of the remediation closure due date with the approval of this submission   | Νο |  |

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

QUESTIONS, Page 6

Action 386999

Page 233 of 235

**QUESTIONS** (continued)

| Operator:                  | OGRID:  |
|----------------------------|---|
| Murchison Oil and Gas, LLC | 15363   |
| 7250 Dallas Parkway        | Action Number:  |
| Plano, TX 75024            | 386999  |
|                            | Action Type:  |
|                            | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

| Sampling Event Information  |            |  |
|---|------------|--|
| Last sampling notification (C-141N) recorded  | 383715     |  |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 09/18/2024 |  |
| What was the (estimated) number of samples that were to be gathered                             | 8          |  |
| What was the sampling surface area in square feet   | 1000       |  |

**Remediation Closure Request** 

| Only answer the questions in this group if seeking remediation closure for this release because all re   | emediation steps have been completed.  |
|--|--|
| Requesting a remediation closure approval with this submission   | Yes  |
| Have the lateral and vertical extents of contamination been fully delineated   | Yes  |
| Was this release entirely contained within a lined containment area  | No   |
| All areas reasonably needed for production or subsequent drilling operations have<br>been stabilized, returned to the sites existing grade, and have a soil cover that<br>prevents ponding of water, minimizing dust and erosion   | Yes  |
| What was the total surface area (in square feet) remediated  | 1635   |
| What was the total volume (cubic yards) remediated   | 600  |
| All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene   | Yes  |
| What was the total surface area (in square feet) reclaimed   | 1635   |
| What was the total volume (in cubic yards) reclaimed   | 600  |
| Summarize any additional remediation activities not included by answers (above)  | Backfilled excavated pad site with clean caliche and contoured for erosion control.  |
|  | losure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a<br>notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of   |
| I hereby certify that the information given above is true and complete to the best of my l   | knowledge and understand that pursuant to OCD rules and regulations all operators are required   |
| to report and/or file certain release notifications and perform corrective actions for releas<br>the OCD does not relieve the operator of liability should their operations have failed to a<br>water, human health or the environment. In addition, OCD acceptance of a C-141 repor | ses which may endanger public health or the environment. The acceptance of a C-141 report by<br>adequately investigate and remediate contamination that pose a threat to groundwater, surface<br>t does not relieve the operator of responsibility for compliance with any other federal, state, or<br>ally restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed |

| I hereby agree and sign off to the above statement | Name: Cindy Cottrell<br>Title: Regulatory Coordinator<br>Email: ccottrell@jdmii.com<br>Date: 09/26/2024 |
|--|---|
|--|---|

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

QUESTIONS, Page 7

Action 386999

Page 234 of 235

**QUESTIONS** (continued) Operator: OGRID: Murchison Oil and Gas, LLC 15363 7250 Dallas Parkway Action Number: Plano, TX 75024 386999 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) QUESTIONS

| Reclamation Report   |    |  |
|--|----|--|
| answer the questions in this group if all reclamation steps have been completed. |    |  |
| Requesting a reclamation approval with this submission                           | No |  |

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District IV

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

CONDITIONS

Action 386999

CONDITIONS

| Operator:                  | OGRID:  |
|----------------------------|---|
| Murchison Oil and Gas, LLC | 15363   |
| 7250 Dallas Parkway        | Action Number:  |
| Plano, TX 75024            | 386999  |
|                            | Action Type:  |
|                            | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

#### CONDITIONS

| Created<br>By | Condition  | Condition<br>Date |
|---------------|--|-------------------|
| bhall         | Remediation closure approved.  | 9/30/2024         |
| bhall         | A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.  | 9/30/2024         |
| bhall         | The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan. | 9/30/2024         |
| bhall         | Operator failed to provide proper Sampling Notification pursuant to 19.15.29.12.D.(1).(a) NMAC for the samples collected on 6/26/2024. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC.  | 9/30/2024         |