Received by OCD: 11/14/2022 8:29:52 PM Form C-141 State of New Mexico

Oil Conservation Division

| | I uge I oj A |
|----------------|----------------|
| Incident ID | nAPP2116941247 |
| District RP | |
| Facility ID | |
| Application ID | |

Remediation Plan

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

 $\overline{\square}$ Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

| Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. | | | | | | | | |
| Extents of contamination must be fully delineated. | | | | | | | | |
| Contamination does not cause an imminent risk to human health | , the environment, or groundwater. | | | | | | | |
| | | | | | | | | |
| I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptar liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local la | e to the best of my knowledge and understand that pursuant to OCD ertain release notifications and perform corrective actions for releases nee of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of aws and/or regulations. | | | | | | | |
| Printed Name: Amber Griffin | Title: Rep Safety & Environmental Sr | | | | | | | |
| Signature: Amber Griffin | Date: 11/14/2022 | | | | | | | |
| email: Amber_Griffin@eogresources.com | Telephone: 575-748-4111 | | | | | | | |
| | | | | | | | | |
| OCD Only | | | | | | | | |
| Received by: Jocelyn Harimon | Date: 11/15/2022 | | | | | | | |
| Approved with Attached Conditions of Approval Denied Deferral Approved | | | | | | | | |
| Signature: <u>Jennifer Nobui</u> <u>Date:</u> 12/13/2022 | | | | | | | | |

.

Page 5

2135 S. Loop 250 W. Midland, Texas 79703 United States www.ghd.com



Our ref: 11230052-LTR-1

November 14, 2022

New Mexico Oil Conservation Division District 2 811 South First Street Artesia, New Mexico 88210

Updated Site Remediation Work Plan Rodke AOY #1 Release Site EOG Resources Inc. Incident ID: nAPP2116941247 A-21-19S-25E, Eddy County, New Mexico

To Whom It May Concern:

1. Introduction

GHD Services Inc. (GHD), on behalf of EOG Resources (EOG), submits this Updated Site Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of remedial activities, sampling, and analyses in the affected area at the EOG Rodke AOY #1 Release Site (Site). The Site is located in Eddy County, New Mexico. The GPS coordinates for the release site are 32.648371 N latitude and 104.488160 W longitude. The release occurred on private land owned by Ross Ranch. Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2, Site Details Map.

2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on June 18, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and site abandonment activities associated with this location. Soils within the former tank battery containment appeared to be discolored and after discussions between field personnel and environmental staff, EOG made the decision to go ahead and file a C-141 for this suspect release location.

The release falls under the jurisdiction of the NMOCD District 2 Office in Artesia, New Mexico. The NMOCD assigned the release with Incident Number NAPP2116941247. The Release Notification, Site Assessment/ Characterization and Remediation Plan portions of Form C-141 are attached to the front of this report. GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

→ The Power of Commitment

3. Excavation Summary

In April, May, and June 2022 GHD, on behalf of EOG, completed excavation and sampling activities at the Site. During the excavation activities composite excavation samples from the sidewalls and bottom of the excavation were collected and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300. BTEX and TPH exceedances were noted in bottom hole confirmation samples BH-20 and BH-21 at 20 to 22 feet below ground surface (bgs). At the completion of confirmation sampling and based on results the excavation was backfilled with non-impacted soil prior to the setting of treatment wells to begin bioremediation of the hydrocarbon impacts.

Analytical results are provided in Table 1. Further details regarding all completed excavation activities will be captured in a final closure report.

4. Treatment Summary

As approved by NMOCD on March 18, 2022, drilling oversight and installation of treatment wells was conducted on August 24-25, 2022. A total of two soil treatment wells (IW-1 and IW-2) were installed within the affected area to assist with the bioremediation and venting of the hydrocarbon impacts below 20 feet bgs.

One treatment well was installed for every 100 square feet of impacted area to be remediated. The wells consisted of 2-inch pvc pipe with slotted well screen installed for the last 5-10 feet of the well, well depth was staggered to ensure that the microbial product used to increase bioremediation made contact with all areas that required treatment. The product utilized for treatment was Rigby Taylor (RT) Remediact, which is a concentrated solution of bacteria and microorganisms used to bioremediate hydrocarbons in soils. The RT Remediact was absorbed into the surrounding soils, allowing for the digestion of organics and the breakdown of the hydrocarbons. The RT Remediact was injected into the wells every 2 weeks for approximately 12 weeks, totaling 6 separate treatments. A total of 1,032 gallons of solution and 10,320 gallons of water was injected for the entire treatment period. The first treatment was completed the week of August 22, 2022 and the final treatment was completed the week of October 24, 2022.

5. Confirmation Soil Sampling Summary and Findings

On November 8, 2022, GHD and EOG's contractor HCI Drilling advanced one soil boring for the purpose of collecting confirmation soil samples. Samples were collected at 5-foot increments beginning at 35 feet bgs to a depth of 50 feet bgs. All soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300 by Cardinal Laboratories in Hobbs, New Mexico.

Samples at 45 and 50 feet bgs in the soil boring CB-1 exceeded applicable NMAC Table 1 Closure Criteria for groundwater greater than 100 feet. Figure 2, Site Details Map, depicts the location of the confirmation boring sample. The CB-1 soil boring log is provided as Attachment A. Analytical results are provided in Table 1, on Figure 3, and in the Laboratory Analytical Reports provided in Attachment B.

6. nAPP2116941247 Proposed Work Plan

CB-1 exhibited BTEX and TPH GRO and DRO above Table 1 closure criteria to a depth of 45 and 50 feet bgs. None of the other samples submitted for analysis exhibited exceedances above Table 1 closure criteria. Based



on results from the confirmation soil borings further treatment injections are required to adequately breakdown the hydrocarbon within the impacted soils. Continued injections are proposed to the speed of bioremediation.

The RT Remediact microbial strain will continue to be injected into the wells every 3 weeks for approximately 18 weeks, totaling 6 separate treatments. The amount of treatment solution will be increased for the injection events. Approximately 30 days after the last treatment, a core rig will be brought in to perform sampling of the treated areas. This will consist of performing one sample boring per 200 square feet, with samples collected at 5-foot increments with anticipated sampling to begin at 35 feet bgs to a depth of 50 feet bgs.

Once confirmation samples collected from the soil boring(s) post treatment are below Table 1 closure criteria, treatment wells will be plugged with non-impacted soil material and cut/capped at a depth of 3 feet bgs, or completely removed with the bore hole backfilled with non-impacted soil material. A closure report will be prepared to document remediation activities and submitted to the NMOCD. If the samples exhibit Total TPH concentrations above Table 1 closure criteria an update will be provided to NMOCD with the progress to date with the additional remediation steps that will occur for the site.

Regards,

GHD

Murrey

J.T. Murray Project Director

JTM/MM/mk/LTR-1

elkellar

Moshghan Mansoori Senior Project Manager

Encl. Figure 1 – Site Location Map
Figure 2 – Site Details Map
Figure 3 – Confirmation Soil Analytical
Table 1 – Summary of Soil Analytical Data
Attachment A – CB-1 Soil Boring Log
Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle









EDDY COUNTY, NEW MEXICO RODKE AOY #1

Date November 2022

SITE LOCATION MAP

FIGURE 1

Released 102/11/20052/Digital DesignACADI-Figures/PRE01111230052-GHD-00-00-PRE-EN-D101_DL-001.dwg

Data Source: USGS 7.5 Minute Quad "Dayton, Seven Rivers, Foster Ranch, and Parish Ranch, New Mexico" Lat/Long: 32.6481° North, 104.4880° West



LEGEND CONFIRMATION SOIL BORING LOCATION 0 INJECTION WELL LOCATION





Filename: \\ghdneftghd\US\Midland\Projects\562\11230052\Digital_Design\ACAD\Figures\PRE001\11230052-GHD-00-00-PRE-EN-D101_DL-001.dwg Plot Date: 14 November 2022 3:23 PM

SITE DETAILS MAP



Date November 2022

Data Source: Image © 2021 Google - Imagery Date: December 21, 2019 Lat/Long: 32.6481° North, 104.4880° West



2

DEPTH DEPTH OF SAMPLE (FT) BTEX BENZENE, TOLUENE, ETHYLBENZENE & XYLENES CONCENTRATION (MG/KG) TOTAL PETROLEUM HYDROCARBONS TPH

CONCENTRATION (MG/KG)

NOTES:

- 1. RESULTS IN MILLIGRAMS PER KILOGRAM (MG/KG).
- 2. SEE TABLE 1 FOR FULL ANALYTICAL RESULTS/DETAILS.
- 3. YELLOW SHADED CELLS INDICATE EXCEEDANCE.





EDDY COUNTY, NEW MEXICO RODKE AOY #1

Date November 2022

CONFIRMATION SOIL ANALYTICAL



Data Source: Image © 2021 Google - Imagery Date: December 21, 2019 Lat/Long: 32.6481° North, 104.4880° West

| | | | | | | | | | Total Petroleur | n Hydrocarbons (TPI | 1) | |
|-----------|-------------|----------|----------|---------|----------------|------------------|---------------------|---------------------|-------------------|---------------------|-------------------|--------------|
| | | Denth | Benzene | Toluene | Ethylbenzene | Xylenes | BTEX | GRO (C6-C10) | DRO (C10-C28) | MRO (C28-C35) | Total GRO/DRO/MRO | Chloride |
| Sample ID | Sample Date | (ft bgs) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| | | | | | Table I (| Closure Criteria | for Soils between 5 | 51 and 100 feet Dep | th to Groundwater | 19.15.29 NMAC | | |
| | | | 10 mg/kg | | | | 50 mg/kg | 1,000 | mg/kg | | 2,500 mg/kg | 10,000 mg/kg |
| | | • | | | Initial Assess | ment Samples | | | | | | |
| TP1-8 | 7/19/2021 | 8 | 300 | 640 | 260 | 250 | 1,450 | 6,700 | 9,300 | 3,600 | 19,600 | 8,300 |
| TP1-15 | 7/19/2021 | 15 | 11 | 160 | 120 | 120 | 411 | 2,200 | 5,600 | 2,300 | 10,100 | 5,200 |
| TP1-20 | 7/19/2021 | 20 | 29 | 210 | 140 | 160 | 539 | 3,200 | 7,200 | 2,900 | 13,300 | 4,200 |
| TP2-2 | 7/19/2021 | 2 | <0.025 | <0.050 | <0.050 | <0.099 | <0.099 | <5.0 | <10 | <50 | <50 | <60 |
| TP2-6 | 7/19/2021 | 6 | <0.024 | <0.047 | <0.047 | <0.095 | <0.095 | <4.7 | <9.9 | <50 | <50 | <60 |
| TP3-2 | 7/19/2021 | 2 | <0.025 | <0.049 | <0.049 | <0.099 | <0.099 | <4.9 | <8.9 | <44 | <44 | 590 |
| TP3-4 | 7/19/2021 | 4 | <0.024 | <0.049 | <0.049 | <0.097 | <0.097 | <4.9 | <8.8 | <44 | <44 | 300 |
| TP3-7 | 7/19/2021 | 7 | <0.024 | <0.048 | <0.048 | <0.095 | <0.095 | <4.8 | <8.5 | <43 | <43 | 93 |
| TP4-S | 7/20/21 | Surface | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | <5.0 | <9.4 | <47 | <47 | <60 |
| TP4-2 | 7/20/21 | 2 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | <5.0 | <9.9 | <49 | <49 | <60 |
| TP5-S | 7/20/21 | Surface | <0.024 | <0.049 | <0.049 | <0.097 | <0.097 | <4.9 | <8.8 | <44 | <44 | <60 |
| TP5-2 | 7/20/21 | 2 | <0.025 | <0.050 | <0.050 | <0.099 | <0.099 | <5.0 | <9.8 | <49 | <49 | 450 |
| TP5-8 | 7/20/21 | 8 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | <5.0 | <8.8 | <44 | <44 | 390 |
| TP5-14 | 7/20/21 | 14 | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <9.7 | <48 | <48 | 66 |
| TP6-S | 7/20/21 | Surface | <0.025 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <9.9 | <49 | <49 | <60 |
| TP6-2 | 7/20/21 | 2 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | <5.0 | <9.5 | <47 | <47 | 91 |
| TP7-S | 8/30/21 | Surface | <0.023 | <0.047 | <0.047 | <0.093 | <0.093 | <4.7 | <9.7 | <48 | <48 | <61 |
| TP7-2 | 8/30/21 | 2 | <0.023 | <0.046 | <0.046 | <0.093 | <0.093 | <4.6 | <9.3 | <47 | <47 | <60 |
| TP8-S | 8/30/21 | Surface | <0.024 | <0.048 | <0.048 | <0.095 | <0.095 | <1.8 | < 9.1 | <17 | <17 | <60 |
| TP8-2 | 8/30/21 | 2 | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <9.8 | <49 | <49 | <60 |
| | | | | | | | | | | | | |
| TP9-S | 8/30/21 | Surface | <0.024 | <0.048 | <0.048 | <0.095 | <0.095 | <4.8 | <9.9 | <50 | <50 | <60 |
| TP9-2 | 8/30/21 | 2 | <0.024 | <0.047 | <0.047 | <0.095 | <0.095 | <4.7 | <9.6 | <48 | <48 | 110 |

| | | | | | | | | | Total Petroleur | n Hydrocarbons (TPI | 1) | |
|--------------|-------------|----------|----------|---------|----------------|------------------|---------------------|--------------------|-------------------|---------------------|-------------------|--------------|
| | | Depth | Benzene | Toluene | Ethylbenzene | Xylenes | BTEX | GRO (C6-C10) | DRO (C10-C28) | MRO (C28-C35) | Total GRO/DRO/MRO | Chloride |
| Sample ID | Sample Date | (ft bgs) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| | | | | | Table I (| Closure Criteria | for Soils between § | 1 and 100 feet Dep | th to Groundwater | 19.15.29 NMAC | | |
| | | | 10 mg/kg | | | | 50 mg/kg | 1,000 | mg/kg | | 2,500 mg/kg | 10,000 mg/kg |
| TP10-S | 8/30/21 | Surface | <0.024 | <0.048 | <0.048 | <0.096 | <0.096 | <4.8 | <10 | <50 | <50 | <60 |
| TP10-2 | 8/30/21 | 2 | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <10 | <50 | <50 | <60 |
| TP11-6 | 8/30/21 | 6 | <0.49 | <0.97 | <0.97 | <1.9 | <1.9 | 240 | 5,800 | 2,600 | 8,640 | 67 |
| TP11-10 | 8/30/21 | 10 | <0.024 | <0.048 | <0.048 | <0.096 | <0.096 | <4.8 | <9.6 | <48 | <48 | 87 |
| TP11-12 | 8/30/21 | 12 | <0.024 | <0.048 | <0.048 | <0.096 | <0.096 | <4.8 | <9.4 | <47 | <47 | 86 |
| TP11-15 | 8/30/21 | 15 | <0.023 | <0.047 | <0.047 | <0.093 | <0.093 | <4.7 | 93 | 63 | 156 | 82 |
| TP11-20 | 8/30/21 | 20 | <0.023 | <0.046 | <0.046 | <0.092 | <0.092 | <4.6 | <9.9 | <50 | <50 | 200 |
| TPX-1-14' | 5/11/22 | 14 | <0.100 | 0.153 | 11.4 | 21.9 | 33.5 | 397 | 2,510 | 341 | 3,248 | 32.0 |
| TPX-1-14' SW | 5/11/22 | 14 | <0.050 | <0.050 | 5.66 | 6.97 | 12.6 | 495 | 4060 | 537 | 5,092 | 32.0 |
| TPX-1-23' | 5/11/22 | 23 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| TPX-1-23' SW | 5/11/22 | 23 | <0.050 | <0.050 | <0.050 | <0.150 | <0.300 | <10.0 | <10.0 | <10.0 | <10.0 | 32.0 |
| | | | | | Soil Borin | ng Samples | | | | | | |
| SB-1-5' | 12/21/2021 | 5 | 50 | 190 | 110 | 110 | 460 | 3,100 | 1,600 | 550 | 5,250 | 4,200 |
| SB-1-10' | 12/21/2021 | 10 | 6 | 59 | 51 | 60 | 176 | 1,400 | 3,600 | 1,200 | 6,200 | 4,900 |
| SB-1-15' | 12/21/2021 | 15 | <0.48 | 10 | 17 | 19 | 46 | 480 | 4,200 | 1,700 | 6,380 | 2,900 |
| SB-1-20' | 12/21/2021 | 20 | 1.6 | 22 | 33 | 40 | 96.6 | 790 | 7,000 | 2,800 | 10,590 | 2,300 |
| SB-1-25' | 12/21/2021 | 25 | 0.046 | 0.21 | 0.54 | 0.64 | 1.436 | 34 | 130 | <45 | 164 | 71 |
| SB-1-30' | 12/21/2021 | 30 | <0.024 | 0.15 | 0.95 | 1.5 | 2.6 | 40 | 950 | 350 | 1,340 | 120 |
| SB-1-35' | 12/21/2021 | 35 | 0.16 | 2.2 | 3.7 | 4.1 | 10.16 | 96 | 920 | 350 | 1,366 | 260 |
| SB-1-40' | 12/21/2021 | 40 | 3.8 | 21 | 21 | 21 | 66.8 | 610 | 380 | 140 | 1,130 | 290 |
| SB-1-45' | 12/21/2021 | 45 | 53 | 260 | 170 | 170 | 653 | 4,400 | 10,000 | 3,500 | 17,900 | 89 |
| SB-1-50' | 12/21/2021 | 50 | 0.074 | <0.050 | <0.050 | <0.099 | 0.074 | <5.0 | <9.6 | <48 | <48 | <60 |
| | | | | | Composite Conf | firmation Sampl | les | | | | | |
| СВН | 4/13/2022 | 23 | 2.7 | 5.0 | 2.9 | 3.0 | 13.6 | 71 | 67 | <49 | 138 | 470 |
| SSW | 4/13/2022 | Sidewall | 2.0 | 21 | 23 | 25 | 71 | 380 | 6,200 | 3,000 | 9,580 | 15,000 |
| NSW | 4/13/2022 | Sidewall | 2.9 | 51 | 58 | 63 | 174.9 | 880 | 6,900 | 2,900 | 10,680 | 7,400 |
| WSW | 4/13/2022 | Sidewall | 5.6 | 66 | 57 | 58 | 186.6 | 850 | 3,200 | 1,300 | 5,350 | 2,800 |
| ESW | 4/13/2022 | Sidewall | 0.76 | 22 | 47 | 59 | 128.76 | 700 | 5,400 | 2,800 | 8,900 | 71 |

| | | | | | | | | | Total Petroleur | n Hydrocarbons (TP | H) | |
|----------------------------------|-------------|----------|----------|---------|--------------|------------------|---------------------|---------------------|-------------------|--------------------|-------------------|--------------|
| | | Denth | Benzene | Toluene | Ethylbenzene | Xylenes | BTEX | GRO (C6-C10) | DRO (C10-C28) | MRO (C28-C35) | Total GRO/DRO/MRO | Chloride |
| Sample ID | Sample Date | (ft bgs) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| | | | - | | Table I (| Closure Criteria | for Soils between § | 51 and 100 feet Dep | th to Groundwater | 19.15.29 NMAC | | |
| | | | 10 mg/kg | | | | 50 mg/kg | 1,000 | mg/kg | | 2,500 mg/kg | 10,000 mg/kg |
| Bottom Hole Confirmation Samples | | | | | | | | | | | | |
| BH-1 | 6/2/2022 | 4-8 | <0.12 | <0.24 | <0.24 | <0.49 | <0.49 | <24 | 36 | <47 | 36 | 62 |
| BH-2 | 6/2/2022 | 4-8 | <0.023 | <0.046 | <0.046 | <0.092 | <0.092 | <4.6 | <14 | <46 | <46 | 690 |
| BH-3 | 6/2/2022 | 4-8 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | <5.0 | <14 | <47 | <47 | 740 |
| BH-4 | 6/2/2022 | 8-12 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | <4.8 | <14 | <48 | <48 | 370 |
| BH-5 | 6/2/2022 | 8-12 | <0.025 | <0.050 | <0.050 | <0.099 | <0.099 | <5.0 | <14 | <48 | <48 | 870 |
| BH-6 | 6/2/2022 | 8-12 | <0.024 | <0.048 | <0.048 | <0.096 | <0.096 | <4.8 | <14 | <48 | <48 | 1,200 |
| BH-7 | 6/2/2022 | 12-16 | <0.023 | <0.047 | <0.047 | <0.093 | <0.093 | <4.7 | <14 | <47 | <47 | 550 |
| BH-8 | 6/2/2022 | 12-16 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | <4.8 | 90 | <48 | 90 | 540 |
| BH-9 | 6/2/2022 | 12-16 | <0.025 | <0.050 | <0.050 | <0.10 | <0.10 | <5.0 | 30 | <47 | 30 | 550 |
| BH-10 | 6/10/2022 | 16-20 | <0.023 | <0.047 | <0.047 | <0.094 | <0.094 | <4.7 | 190 | 110 | 300 | 470 |
| BH-11 | 6/10/2022 | 16-20 | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | 650 | 250 | 900 | 860 |
| BH-12 | 6/10/2022 | 16-20 | <0.024 | <0.049 | <0.049 | <0.097 | <0.097 | <4.9 | 460 | 200 | 660 | 690 |
| BH-13 | 6/10/2022 | 20-22 | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <14 | <46 | <46 | 270 |
| BH-14 | 6/10/2022 | 20-22 | <0.12 | <0.25 | <0.25 | <0.49 | <0.49 | <25 | 320 | 190 | 510 | 710 |
| BH-15 | 6/10/2022 | 20-22 | <0.024 | <0.048 | <0.048 | <0.097 | <0.097 | <4.8 | 28 | <50 | 28 | 330 |
| BH-16 | 6/10/2022 | 22 | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <14 | <48 | <48 | <60 |
| BH-17 | 6/10/2022 | 22 | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <14 | <47 | <47 | <60 |
| BH-18 | 6/10/2022 | ach | <0.12 | <0.23 | <0.23 | <0.47 | <0.47 | <23 | 250 | 90 | 340 | <60 |
| BH-19 | 6/10/2022 | 20-22 | <0.025 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <15 | <49 | <49 | 250 |
| BH-20 | 6/10/2022 | 20-22 | <0.23 | 3.6 | 5.3 | 15 | 23.9 | 290 | 3,600 | 1,300 | 5,190 | 5,600 |
| BH-21 | 6/10/2022 | 22 | 4.3 | 39 | 31 | 32 | 106.3 | 500 | 2,400 | 870 | 3,770 | 2,800 |

| | | | | | | | | | Total Petroleur | n Hydrocarbons (TPI | ł) | |
|-----------|-------------|----------|----------|---------|-----------------|------------------|---------------------|---------------------|-------------------|---------------------|-------------------|--------------|
| | | Depth | Benzene | Toluene | Ethylbenzene | Xylenes | BTEX | GRO (C6-C10) | DRO (C10-C28) | MRO (C28-C35) | Total GRO/DRO/MRO | Chloride |
| Sample ID | Sample Date | (ft bgs) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| | | | | 1 | Table I (| Closure Criteria | for Soils between 5 | 51 and 100 feet Dep | th to Groundwater | 19.15.29 NMAC | | |
| | | | 10 mg/kg | | | | 50 mg/kg | 1,000 mg/kg | | | 2,500 mg/kg | 10,000 mg/kg |
| | | | | | Sidewall Confin | rmation Sample | s | | | | | |
| SW-1 | 6/2/2022 | Sidewall | <0.025 | <0.049 | <0.049 | <0.099 | <0.099 | <4.9 | <14 | <47 | <47 | 200 |
| SW-2 | 6/2/2022 | Sidewall | <0.025 | <0.049 | <0.049 | <0.099 | <0.099 | <4.9 | <15 | <50 | <50 | <60 |
| SW-3 | 6/2/2022 | Sidewall | <0.023 | <0.047 | <0.047 | <0.093 | <0.093 | <4.7 | <15 | <49 | <49 | 180 |
| SW-4 | 6/2/2022 | Sidewall | <0.023 | <0.046 | <0.046 | <0.093 | <0.093 | <4.6 | <15 | <49 | <49 | <60 |
| SW-5 | 6/2/2022 | Sidewall | <0.025 | <0.049 | <0.049 | <0.099 | <0.099 | <4.9 | <14 | <46 | <46 | 100 |
| SW-6 | 6/10/2022 | Sidewall | <0.023 | <0.046 | <0.046 | <0.092 | <0.092 | <4.6 | <15 | <50 | <50 | <60 |
| SW-7 | 6/10/2022 | Sidewall | <0.025 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | <15 | <48 | <48 | 510 |
| SW-8 | 6/10/2022 | Sidewall | <0.023 | <0.047 | <0.047 | <0.093 | <0.093 | <4.7 | 16 | <48 | 16 | 210 |
| SW-9 | 6/10/2022 | Sidewall | <0.024 | <0.049 | <0.049 | <0.097 | <0.097 | <4.9 | 130 | 56 | 186 | 420 |
| SW-10 | 6/10/2022 | Sidewall | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | 700 | 510 | 1,210 | 610 |
| SW-11 | 6/10/2022 | Sidewall | <0.024 | <0.048 | <0.048 | <0.095 | <0.095 | <4.8 | 250 | 110 | 360 | 340 |
| SW-12 | 6/10/2022 | Sidewall | <0.12 | <0.24 | <0.24 | <0.49 | <0.49 | <24 | 430 | 180 | 610 | 720 |
| SW-13 | 6/10/2022 | Sidewall | <0.023 | <0.047 | <0.047 | <0.093 | <0.093 | <4.7 | 250 | 110 | 360 | 690 |
| SW-14 | 6/10/2022 | Sidewall | <0.024 | <0.047 | <0.047 | <0.095 | <0.095 | <4.7 | 910 | 330 | 1,240 | 740 |
| SW-15 | 6/10/2022 | Sidewall | <0.12 | <0.24 | <0.24 | <0.49 | <0.49 | <24 | 760 | 360 | 1,120 | 1,000 |
| SW-16 | 6/10/2022 | Sidewall | <0.024 | <0.049 | <0.049 | <0.098 | <0.098 | <4.9 | 560 | 240 | 800 | 1,100 |
| SW-17 | 6/10/2022 | Sidewall | <0.12 | <0.25 | <0.25 | <0.50 | <0.50 | <25 | 55 | <49 | 55 | 830 |
| | | | | | Confirmation | Boring Samples | | | | | | |
| CB-1 | 11/8/2022 | 35' | 0.305 | 0.469 | 1.51 | 1.04 | 3.33 | 10.1 | 180 | 26 | 216 | 480 |
| CB-1 | 11/8/2022 | 40' | 0.678 | 5.08 | 8.33 | 6.97 | 21.1 | 20.1 | 183 | 29 | 232 | 624 |
| CB-1 | 11/8/2022 | 45' | 2.05 | 18.5 | 32.4 | 31.8 | 84.8 | 338 | 1,870 | 242 | 2,450 | 640 |
| CB-1 | 11/8/2022 | 50' | 1.46 | 11.2 | 18.1 | 17.3 | 48.1 | 202 | 1,060 | 138 | 2,662 | 896 |
| | | | | | | | | | | | | |

Notes:

1. Values reported in mg/kg

2. < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

4 BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod. B-BH 2 Sample Point Excavated 6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Indicates analytical samples that exceed the NMOC 19.15.29.12 Table 1

Closure Criteria for the site.

8. Indicates analytical samples that exceed the NMOC 19.15.29.13 Table 1

Closure Criteria for the site. (Top four feet)

9. --- = not defined

Attachments

Attachment A

CB-1 Soil Boring Log

Г

•

| | STRATIGR | APHIC LOG | | | | | | |
|--|--|----------------------------|--------------|--------|-------|----------|-----------------|--------|
| GHD | (OVERE | BURDEN) | | | | | Page | 1 of 2 |
| PROJEC | TNAME Rodke AOY #1 | | :B-1 | | | | | |
| PROJEC | CT NUMBER: 11230052 | DATE COMPLETED: 11 Aug | ust 2022 | | | | | |
| | | | | | | | | |
| | ON Eddy County New Marine | | .aiy | | | | | |
| LUCAN | | FIELD PERSONNEL: L. MUI | ins | | | | | |
| DRILLIN | | DRILLER: K. Cooper | | | | SVWE | | |
| ft BGS | STRATIGRAPHIC DESCRIPTION & REM | /ARKS | DEPTH BGS | ~ | _ | | | |
| | | | | BEF | AV5 | (%) | alue | ۵Ê |
| | | | | | III I | REC | > . <u>v</u> | Id dj |
| | BACKEILI | X | | 2 | _ ∠ | <u> </u> | | |
| 52 | caliche rock with sand, brown, dry | | | | | | | |
| <u>≩</u> _2 € | | | | | | | | |
| | | | | | | | | |
| Dat | | | | | | | | |
| 9 <u></u> 6 | | | | | | | | |
| | | | | | | | | |
| 8 8 8 | | | | | | | | |
| | | | | | | | | |
| 12 | | | | | | | | |
| 8 8 19 14 | | | | | | | | |
| စို_ ၇ — 16 | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | 04.00 | | | | | |
| 0.5 5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | CL-SILTY CLAY, reddish brown, slightly moist | | 24.00 | | | | | |
| 3 – 26 901 | | | | | | | | |
| 28 | | | | | | | | |
| 11 - 30 | | | | | | | | |
| 32 | | | | | | | | |
| 34 HOIL | | | | 33-35 | | | | 926.1 |
| - <u>-</u> 36 | SP-SAND, fine to medium grained, light brown, slightly moist | | 36.00 | | | | | |
| 86 | | | | | | | | |
| SL2 | | | | 38-40' | - | | | 3551 |
| OB4/C 42 | | | | | | | | |
| | | | | 43-45' | | | | 2231 |
| | | | | | | | | |
| 1H9 | | 41 | 47.00 | | | | | |
| | | | | | | | | |
| NGH | INCIES. INERSURING FOINT ELEVATIONS WAY CHANGE; REF | LINTO CORRENT ELEVATION I. | NOLE | | | | | |
| File: | CHEMICAL ANALYSIS | | | | | | | |

•

| GHD | | STRATIGRAPHIC LO (OVERBURDEN) | G | | | | | Page | 2 of 2 |
|--|--|----------------------------------|-------------------|--------------|--------|------|--------|-------|------------|
| PROJEC | CT NAME: Rodke AOY #1 | HOLE DESIG | NATION: CB | -1 | | | | | |
| PROJEC | CT NUMBER: 11230052 | DATE COMP | LETED: 11 Augus | t 2022 | | | | | |
| CLIENT: | EOG Resources | DRILLING M | ETHOD: Air Rotary | y | | | | | |
| LOCATI | ON: Eddy County, New Mexico | FIELD PERS | ONNEL: L. Mullins | 6 | | | | | |
| DRILLIN | IG CONTRACTOR: HCI Drilling | DRILLER: K. | Cooper | | | | 0.4145 | | |
| DEPTH ft BGS | STRATIGRAPHIC | DESCRIPTION & REMARKS | | DEPTH BGS | r | Ļ | | 'LE | |
| | | | | | MBEF | ERVA | C (% | Value | DIC DIC |
| | | | | | ŊN | INTE | RE | Ż | ਜ ਕੇ |
| 2 | | | | | 48-50' | | | | 1288 |
| 50 | END OF BOREHOLE @ 50.00ft BGS | | 5 | 60.00 | | | | | |
| ÷ _ ;• | | | | | | | | | |
| | | | | | | | | | |
| 21- 54 Z | | | | | | | | | |
| Gr 56 | | | | | | | | | |
| ¥⊒_ 58 | | | | | | | | | |
| :tuo | | | | | | | | | |
| | | | | | | | | | |
| 62 19:90, | | | | | | | | | |
| 2 02 64 | | | | | | | | | |
| | | | | | | | | | |
| CHC CHC | | | | | | | | | |
| | | | | | | | | | |
| 07 | | | | | | | | | |
| ۲ <u>ط</u> 19 | | | | | | | | | |
| 10 | | | | | | | | | |
| | | | | | | | | | |
| 230052 | | | | | | | | | |
| 11/SS/11/ | | | | | | | | | |
| 01 L 80 | | | | | | | | | |
| 11911 HO HO HO HO | | | | | | | | | |
| 052/TE | | | | | | | | | |
| 40 | | | | | | | | | |
| 08 11 18 | | | | | | | | | |
| 88 | | | | | | | | | |
| 00 | | | | | | | | | |
| DLANE | | | | | | | | | |
| 92 11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | | | | | | | | | |
| 10H5 | | | | | | | | | |
| | | | | | | | | | |
| WGHL | <u>INUTES:</u> MEASURING POINT ELEVATION | S MAY CHANGE; KEFER TO CURREN | I ELEVATION TAB | LE | | | | | |
| File: | CHEMICAL ANALYSIS |) | | | | | | | |

Attachment B

Laboratory Analytical Reports and Chain-of-Custody Documentation



November 09, 2022

JT MURREY GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE, NM 87110

RE: RODKE AOY #1

Enclosed are the results of analyses for samples received by the laboratory on 11/08/22 12:03.

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

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| Method EPA 552.2 | Haloacetic Acids (HAA-5) |
|------------------|------------------------------|
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3) |

Accreditation applies to public drinking water matrices.

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



| | | GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, N ALBUQUERQUE NM, 87110 Fax To: | IE STE. 200 | |
|-----------------|--------------|---|---------------------|----------------|
| Received: | 11/08/2022 | | Sampling Date: | 11/08/2022 |
| Reported: | 11/09/2022 | | Sampling Type: | Soil |
| Project Name: | RODKE AOY #1 | | Sampling Condition: | Cool & Intact |
| Project Number: | 11230052 | | Sample Received By: | Tamara Oldaker |

Sample ID: CB - 1 (35') (H225264-01)

EOG - ARTESIA, 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* | 0.305 | 0.050 | 11/08/2022 | ND | 1.90 | 94.9 | 2.00 | 2.91 | |
| Toluene* | 0.469 | 0.050 | 11/08/2022 | ND | 2.10 | 105 | 2.00 | 2.75 | |
| Ethylbenzene* | 1.51 | 0.050 | 11/08/2022 | ND | 1.95 | 97.3 | 2.00 | 3.33 | |
| Total Xylenes* | 1.04 | 0.150 | 11/08/2022 | ND | 5.87 | 97.8 | 6.00 | 3.07 | |
| Total BTEX | 3.33 | 0.300 | 11/08/2022 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 120 % | 69.9-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 480 | 16.0 | 11/08/2022 | ND | 416 | 104 | 400 | 3.92 | |
| 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* | 10.1 | 10.0 | 11/09/2022 | ND | 181 | 90.4 | 200 | 7.48 | |
| DRO >C10-C28* | 180 | 10.0 | 11/09/2022 | ND | 210 | 105 | 200 | 6.11 | |
| EXT DRO >C28-C36 | 26.4 | 10.0 | 11/09/2022 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 87.9 9 | 45.3-16 | 1 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 95.7 9 | 46.3-17 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To: | |
|-----------------|--------------|---|--------------------|
| Received: | 11/08/2022 | Sampling Date: | 11/08/2022 |
| Reported: | 11/09/2022 | Sampling Type: | Soil |
| Project Name: | RODKE AOY #1 | Sampling Condition | on: Cool & Intact |
| Project Number: | 11230052 | Sample Received | By: Tamara Oldaker |

Sample ID: CB - 1 (40') (H225264-02)

EOG - ARTESIA, NM

Project Location:

| BTEX 8021B | mg, | ′kg | Analyzed By: JH | | | | | | S-04 |
|--------------------------------------|------------------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result Reporting Limit | | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 0.678 | 0.050 | 11/08/2022 | ND | 1.90 | 94.9 | 2.00 | 2.91 | |
| Toluene* | 5.08 | 0.050 | 11/08/2022 | ND | 2.10 | 105 | 2.00 | 2.75 | |
| Ethylbenzene* | 8.33 | 0.050 | 11/08/2022 | ND | 1.95 | 97.3 | 2.00 | 3.33 | |
| Total Xylenes* | 6.97 | 0.150 | 11/08/2022 | ND | 5.87 | 97.8 | 6.00 | 3.07 | |
| Total BTEX | 21.1 | 0.300 | 11/08/2022 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 171 : | % 69.9-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg, | ′kg | Analyze | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 624 | 16.0 | 11/08/2022 | ND | 416 | 104 | 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* | 20.1 | 10.0 | 11/09/2022 | ND | 181 | 90.4 | 200 | 7.48 | |
| DRO >C10-C28* | 183 | 10.0 | 11/09/2022 | ND | 210 | 105 | 200 | 6.11 | |
| EXT DRO >C28-C36 | 29.2 | 10.0 | 11/09/2022 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 91.6 | % 45.3-16 | 1 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 99.8 | % 46.3-17 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | IE STE. 200 | | |
|-----------------|--------------|-------------|---------------------|----------------|
| Received: | 11/08/2022 | | Sampling Date: | 11/08/2022 |
| Reported: | 11/09/2022 | | Sampling Type: | Soil |
| Project Name: | RODKE AOY #1 | | Sampling Condition: | Cool & Intact |
| Project Number: | 11230052 | | Sample Received By: | Tamara Oldaker |

Sample ID: CB - 1 (45') (H225264-03)

Project Location:

EOG - ARTESIA, NM

| BTEX 8021B mg/kg Ai | | | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 2.05 | 0.500 | 11/08/2022 | ND | 1.90 | 94.9 | 2.00 | 2.91 | |
| Toluene* | 18.5 | 0.500 | 11/08/2022 | ND | 2.10 | 105 | 2.00 | 2.75 | |
| Ethylbenzene* | 32.4 | 0.500 | 11/08/2022 | ND | 1.95 | 97.3 | 2.00 | 3.33 | |
| Total Xylenes* | 31.8 | 1.50 | 11/08/2022 | ND | 5.87 | 97.8 | 6.00 | 3.07 | |
| Total BTEX | 84.8 | 3.00 | 11/08/2022 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 136 % | 69.9-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 640 | 16.0 | 11/09/2022 | 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* | 338 | 50.0 | 11/09/2022 | ND | 181 | 90.4 | 200 | 7.48 | |
| DRO >C10-C28* | 1870 | 50.0 | 11/09/2022 | ND | 210 | 105 | 200 | 6.11 | |
| EXT DRO >C28-C36 | 242 | 50.0 | 11/09/2022 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 123 % | 6 45.3-16 | 1 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 154 % | 6 46.3-17 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



| | | IE STE. 200 | | |
|-----------------|--------------|-------------|---------------------|----------------|
| Received: | 11/08/2022 | | Sampling Date: | 11/08/2022 |
| Reported: | 11/09/2022 | | Sampling Type: | Soil |
| Project Name: | RODKE AOY #1 | | Sampling Condition: | Cool & Intact |
| Project Number: | 11230052 | | Sample Received By: | Tamara Oldaker |

Sample ID: CB - 1 (50') (H225264-04)

Project Location:

EOG - ARTESIA, NM

| EX 8021B mg/kg Analyzed By: JH | | | d By: JH | | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 1.46 | 0.500 | 11/09/2022 | ND | 1.90 | 94.9 | 2.00 | 2.91 | |
| Toluene* | 11.2 | 0.500 | 11/09/2022 | ND | 2.10 | 105 | 2.00 | 2.75 | |
| Ethylbenzene* | 18.1 | 0.500 | 11/09/2022 | ND | 1.95 | 97.3 | 2.00 | 3.33 | |
| Total Xylenes* | 17.3 | 1.50 | 11/09/2022 | ND | 5.87 | 97.8 | 6.00 | 3.07 | |
| Total BTEX | 48.1 | 3.00 | 11/09/2022 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 123 9 | 69.9-14 | 0 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 896 | 16.0 | 11/09/2022 | ND | 432 | 108 | 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* | 202 | 50.0 | 11/09/2022 | ND | 181 | 90.4 | 200 | 7.48 | |
| DRO >C10-C28* | 1060 | 50.0 | 11/09/2022 | ND | 210 | 105 | 200 | 6.11 | |
| EXT DRO >C28-C36 | 138 | 50.0 | 11/09/2022 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 114 9 | 45.3-16 | 1 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 132 9 | 46.3-17 | 8 | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

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. | | | | | | |
| 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

| Delivered By: (C Sampler - UPS - | Relinquished B | AN NO | Relinquished By | PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Ca | | | | - | 7 43 | | HIZSONA | Lab I.D. | FOR LAB USE ONLY | Sampler Name: | Project Location: | Project Name: < | Project #: 1/2 | Phone #: |
|--|----------------|-------|--------------------------------|--|--|------|----|--------|--------|----------|---------|------------|------------------|---------------|-------------------|-----------------|----------------|----------|
| ircle One) Bus - Other: | | | S on of o house to one percent | d Damages. Cardinal's liability a ig those for negligence and any irdinal be liable for incidental or provide for noble for incidental or | | | | CB-1(5 | CD-1(- | CB-1 (35 | 2 | Sample | | Lee M | | Lodke AO | 30052 | |
| Observed Temp. °(Corrected Temp. ° | Date: Time: | Time | Date: 1 / 2 /2 | and client's exclusive remedy for other cause whatsoever shall b consequental damages, includi mance of services hereunder by | | | | (°) | Sil . | | | e I.D. | | | | (a) (#/ | Project Owner | Fax #: |
| uu | Re | | Re | any clair e deeme ng withou Cardinal | | | | < | _ | 5 | (G)RA | B OR (C)ON | ΛP. | 1 | | FOC | G | |
| 00 | cei | (| cei | n arisir d waiv d limita t limita | | | | < | | | # CON | TAINERS | | 1 | | ME | Ros | |
| | ved | fr | ved | ng whe ed unle ation, b rdless | | | | | | | GROU | NDWATER | | | | NOX | i | |
| Sam | By: | C | By: | ther b ess ma ousines | | | | | | | WAST | EWATER | 3 | | | Sec | S | 4 |
| res | | 2 | | ased in ade in as inter ther s | | | | F | - | - X | SOIL | | | | | Sec | t | - |
| | | Co | | n contr writing rruptio uch cli | | | | _ | | | OIL | 0E | 5 | Ż | | NO | E | - |
| t ditic | (| 0 | | and n ns, los aim is | | | | | _ | | OTHE | B. | | 5 | 1 1 | U U | 0 | 2 |
| 5 | , | A | | s of us based | | | | | | | ACID/ | BASE: | 1 | | | late | ty: | 141 |
| 0 0 | | à | 2 | d by C d, or l upon | 5 | | | | | | ICE / C | COOL | Í | E C | | Þ. | | 00 |
| (FE | 1 | B | 0 | ardinal oss of any of | lin in the second secon | +-+- | | | | , | OTHE | R: | | R | | | | |
| itials) | | Male | 11/0 | within 30 days after profits incurred by c the above stated rea | to the amount pair | | | \in | | 771/8/1 | DATE | | | SAMPI | | Lib. | | |
| Turnaroun Thermomet Correction | REMARK | | All Results | r completion of th lient, its subsidiari asons or otherwis | by the client for | | 10 | 0840 | 0830 | 0820 | TIME | | | LING | | | | |
| er ID Facto | | | are | e applic les, e. | he | | | E | - | -> | B | TEX. | -80 | 2 | 16 |) | | |
| -0 #1 | | 1 | em_ | able | | - | | | - | | - | 1 | | | ~ | 1 5 | | - |

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Released to Imaging: 12/13/2022 1:02:51 PM

All Results are emailed. Please provide Email address:

ON D

Add'l Phone #:

Verbal Result:
Verbal Result:

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Cool Intact

Standard

KO

Cool Intact

Vet Yes

Corrected Temp. °C

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Rush

Thermometer ID #113 Correction Factor -0.6°C

+

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

OKIVI-000 N

ARDIN

City:

Company Name:

GHD & EGG

T. Murry (26HD. LOM

P.O. #:

BILL TO

0

ANALYSIS

REQUEST

Griffin @

E Obresouves. Or

Zip:

Attn: Address:

8015 GRO/DRO/MI

lified

hlorid

2

E

Company:

EOG

Fax #: State: 101 East Marland, Hobbs, NM 88240

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

Project Manager: 5 Address: Ambur_

Page 7 of 7

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

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: |
|-------------------|---|
| EOG RESOURCES INC | 7377 |
| P.O. Box 2267 | Action Number: |
| Midland, TX 79702 | 158719 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|---------------|---|----------------|
| jnobui | Remediation Plan Approved with Conditions. Please track and report volumes of microbial strain injected into the subsurface. OCD recommends confirmation sampling occur 60 days after last injection event. Please advance confirmation soil borings adequately between injection points. | 12/13/2022 |

Page 24 of 24

Action 158719