



June 21, 2024

New Mexico Energy and Natural Resources Department

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request
Shinnery Oaks SWD #003
Incident Number nAPP2412348563
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of San Mateo Stebbins Water Management, LLC (San Mateo), has prepared this *Closure Request* summarizing the response efforts and liner integrity inspection activities performed at the Shinnery Oaks SWD #003 (Site) in Unit E, Section 02, Township 21 South, Range 28 East, in Eddy County, New Mexico (Figure 1). The purpose of the liner integrity inspection was to determine if the lined secondary containment was capable of containing the produced water release that occurred on May 2, 2024, and whether impacts to soil in the areas immediately surrounding the containment liner were present or absent. Based on field observations during the liner integrity inspection, San Mateo is submitting this *Closure Request* and requesting closure for Incident Number nAPP2412348563.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.5112091°, -104.062541°) and is associated with oil and gas exploration and production operations on Private Land.

On May 2, 2024, a tank overflowed, which resulted in the release of 20 barrels (bbls) of produced water inside the concrete secondary containment. A vacuum truck successfully recovered all 20 bbls of produced water. San Mateo reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141, Appendix A) on May 2, 2024. The release was assigned Incident Number nAPP2412348563. A 48-hour advance notice of liner inspection was provided via web portal to the NMOCD on May 9, 2024. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was determined to be intact and had the ability to contain the release in question.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 01905POD1 with a depth to water measurement of 160 feet below

ground surface (bgs). The well is located 0.35 miles northeast of the Site and the most recent documented water level measurement was collected on April 8, 2022. All wells used for depth to groundwater determinations are depicted on Figure 1 and the referenced well records are included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 172 feet south of the edge of the secondary containment wall on Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

LINER INTEGRITY INSPECTION AND DELINEATION SOIL SAMPLING ACTIVITIES

On May 14, 2024, Ensolum personnel competent in conducting liner inspections, arrived onsite to visually inspect the integrity of the containment liner. Prior to conducting the inspection, NMOCD was provided with a 48-hour liner inspection notification via email on May 9, 2024 (Appendix C). Ensolum personnel verified there was no visual evidence of a breach in the concrete containment or the sprayed in liner or any visible staining in the areas immediately surrounding the containment walls. It was determined the liner remains intact and had to the ability to contain the release in question. Photographs taken during the liner inspection are included in Appendix D. Four lateral delineation sample points (SS01 through SS04) were collected on all sides of the concrete containment at ground surface to verify the release remained inside the concrete containment.

Delineation soil samples were field screened for chloride using Hach® chloride QuanTab® test strips. The delineation sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech, Inc. (Envirotech) in Farmington, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Ensolum personnel returned to the Site on June 03, 2024, in order to collect a lateral surface sample (SS04) closer to the edge of the concrete containment. Lateral surface sample SS04A was collected at ground surface. Laboratory analytical results for all lateral delineation soil samples (SS01 through SS04 and SS04A) indicated all COC concentrations were in compliance with strictest Closure Criteria per NMOCD Table I and with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix E.

CLOSURE REQUEST

Following the liner integrity inspection at the Site, it was determined the release was contained laterally and vertically by the lined concrete secondary containment and all released fluids were recovered during initial response activities. Lateral delineation soil samples (SS01 through SS04 and SS04A) collected at ground surface verified the release did not breach the concrete containment walls. Based on initial response efforts, and a reported depth to groundwater of 160 feet bgs, San Mateo respectfully requests closure for Incident Number nAPP2412348563.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely,
Ensolum, LLC



Ashley Giovengo
Senior Scientist



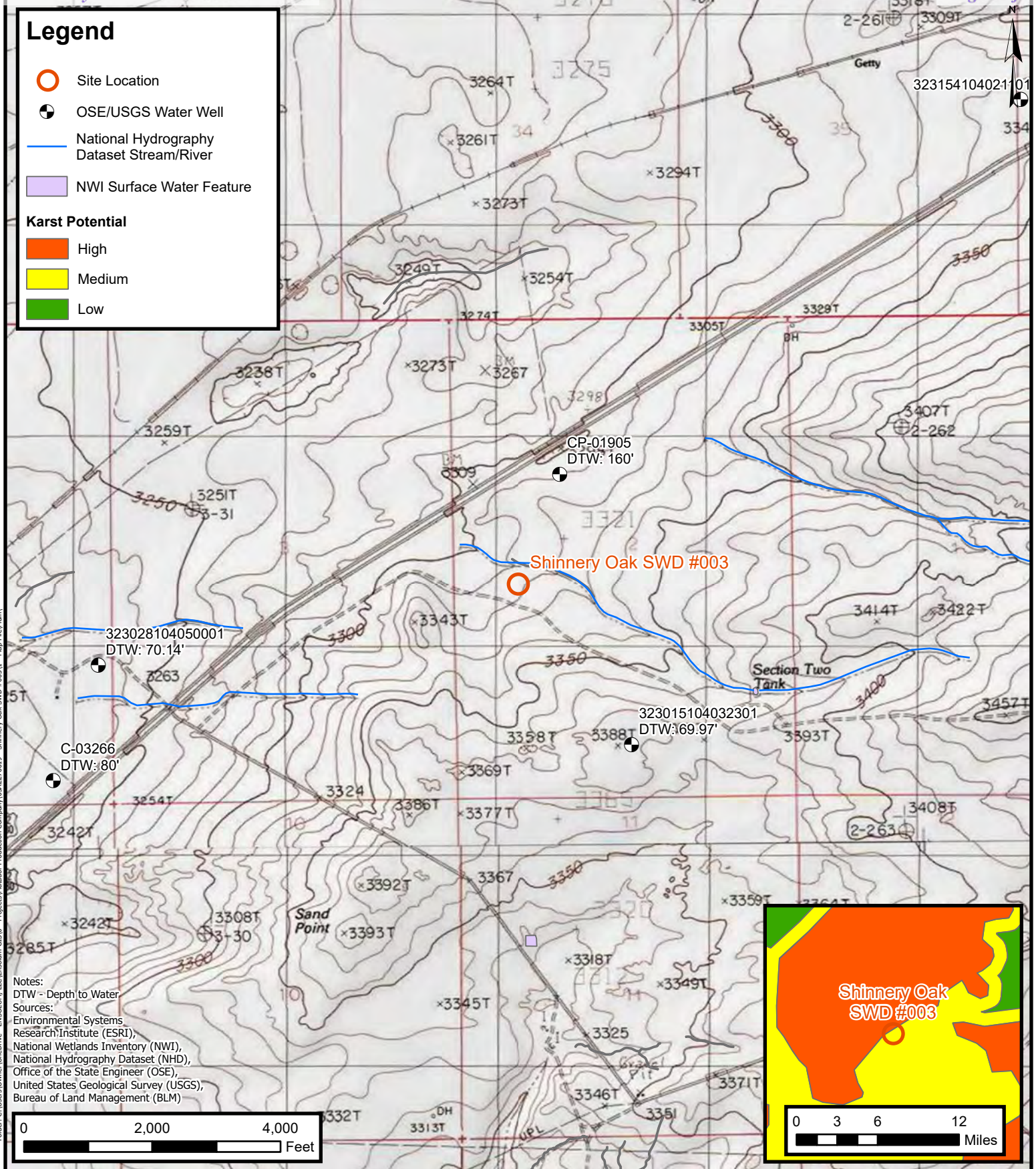
Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist

Appendices:

| | |
|------------|--|
| Figure 1 | Site Receptor Map |
| Figure 2 | Delineation Soil Sample Locations |
| Table 1 | Soil Sample Analytical Results |
| Appendix A | Form C-141 |
| Appendix B | Well Log and Record |
| Appendix C | NMOCD Correspondence |
| Appendix D | Photographic Log |
| Appendix E | Laboratory Analytical Reports & Chain-of-Custody Documentation |



FIGURES



Site Receptor Map
San Mateo Stebbins Water Management, LLC
Shinnery Oaks SWD #003
Incident Number: nAPP2412348563
Unit E, Section 02, Township 21S, Range 28E Eddy Co.,
New Mexico

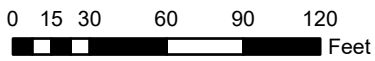
FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Concrete Containment



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)



Delineation Soil Sample Locations

San Mateo Stebbins Water Management, LLC

Shinnery Oak SWD #003

Incident Number: nAPP2412348563

Unit E, Section 02, Township 21S, Range 28E

Eddy County, New Mexico

FIGURE

2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Shinnery Oaks SWD #003
 San Mateo Stebbins Water Management, LLC
 Eddy County, New Mexico

| Sample Designation | Date | Depth (feet bgs) | Benzene (mg/kg) | Total BTEX (mg/kg) | TPH GRO (mg/kg) | TPH DRO (mg/kg) | TPH ORO (mg/kg) | GRO+DRO (mg/kg) | Total TPH (mg/kg) | Chloride (mg/kg) |
|---|-----------|------------------|-----------------|--------------------|-----------------|-----------------|-----------------|-----------------|-------------------|------------------|
| NMOCD Table I Closure Criteria (NMAC 19.15.29) | | | 10 | 50 | NE | NE | NE | 1,000 | 2,500 | 10,000 |
| Delineation Soil Samples | | | | | | | | | | |
| SS01 | 5/14/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 316 |
| SS02 | 5/14/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 65.7 |
| SS03 | 5/14/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 170 |
| SS04 | 5/14/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 218 |
| SS04A | 6/3/2024 | 0 | <0.0250 | <0.0500 | <20.0 | <25.0 | <50.0 | <25.0 | <50.0 | 219 |

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

* Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

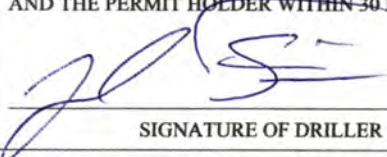
05E0716P211.3.11-11-2022

| | | | | | | | |
|--|---|------------------------------|--|---|--|--|--------------------------------------|
| 1. GENERAL AND WELL LOCATION | OSE POD NO. (WELL NO.) CP-01905 POD1 | | WELL TAG ID NO. 21003 | | OSE FILE NO(S). CP-01905 | | |
| | WELL OWNER NAME(S) JAMES VARNER | | | | PHONE (OPTIONAL) | | |
| | WELL OWNER MAILING ADDRESS 1113 GOLF COURSE RD | | | | CITY ANDREWS | STATE TX | ZIP 79714 |
| | WELL LOCATION (FROM GPS) | DEGREES LATITUDE 32 | MINUTES 30 | SECONDS 57.24 N | * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84 | | |
| DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SECTION 2 TOWNSHIP 21 SOUTH RANGE 28 EAST | | | | | | | |
| 2. DRILLING & CASING INFORMATION | LICENSE NO. WD-1753 | | NAME OF LICENSED DRILLER JACOB FRIESSEN | | | NAME OF WELL DRILLING COMPANY VANGUARD | |
| | DRILLING STARTED 04/07/2022 | DRILLING ENDED 04/08/2022 | DEPTH OF COMPLETED WELL (FT) 210 | BORE HOLE DEPTH (FT) 210 | DEPTH WATER FIRST ENCOUNTERED (FT) 160 | | |
| | COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) | | | | STATIC WATER LEVEL IN COMPLETED WELL (FT) 175 | DATE STATIC MEASURED 04/08/2022 | |
| | DRILLING FLUID: <input type="checkbox"/> AIR <input checked="" type="checkbox"/> MUD ADDITIVES – SPECIFY: | | | | | | |
| | DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY: | | | | | CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/> | |
| | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen) | CASING CONNECTION TYPE (add coupling diameter) | CASING INSIDE DIAM. (inches) | CASING WALL THICKNESS (inches) |
| | FROM | TO | | | | | SLOT SIZE (inches) |
| | -1 | 170 | 9.875 | BLANK PVC SCH40 | GLUE 5.5 | 5 | .25 |
| | 170 | 210 | 9.875 | SCREEN PVC SCH40 | GLUE 5.5 | 5 | .25 |
| | | | | | | | .035 |
| 3. ANNULAR MATERIAL | DEPTH (feet bgl) | | BORE HOLE DIAM. (inches) | LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL | AMOUNT (cubic feet) | METHOD OF PLACEMENT | |
| | FROM | TO | | | | | |
| | -1 | 20 | 9.875 | CONCRETE | 7 | POURED | |
| | 20 | 210 | 9.875 | GRAVEL | 70 | POURED | |
| | | | | | | | |
| | | | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

| | | | | | |
|----------|-----------|---------|-----------------|---------|-------------|
| FILE NO. | CP-1905 | POD NO. | POD1 | TRN NO. | 720063 |
| LOCATION | 2 215 282 | 1.4.1 | WELL TAG ID NO. | 21003 | PAGE 1 OF 2 |

| 4. HYDROGEOLOGIC LOG OF WELL | DEPTH (feet bgl) | | THICKNESS (feet) | COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) | WATER BEARING? (YES / NO) | ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm) |
|--|---|-----|---------------------|--|--------------------------------------|--|
| | FROM | TO | | | | |
| | 0 | 4 | 4 | TOPSOIL | Y ✓ N | |
| | 4 | 26 | 22 | CALICHE | Y ✓ N | |
| | 26 | 70 | 44 | SAND | Y ✓ N | |
| | 70 | 75 | 5 | SAND & GRAVEL | Y ✓ N | |
| | 75 | 86 | 11 | SANDY CLAY | Y ✓ N | |
| | 86 | 105 | 19 | CLAY | Y ✓ N | |
| | 105 | 108 | 3 | ROCK | Y ✓ N | |
| | 108 | 118 | 10 | CLAY | Y ✓ N | |
| | 118 | 120 | 2 | ROCK | Y ✓ N | |
| | 120 | 163 | 43 | SAND & CLAY | Y ✓ N | |
| | 163 | 194 | 31 | SAND | ✓ Y N | 5.00 |
| | 194 | 210 | 16 | RED CLAY | Y ✓ N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| | | | | | Y N | |
| METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: | | | | | TOTAL ESTIMATED WELL YIELD (gpm): | |
| <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY: | | | | | | |
| 5. TEST; RIG SUPERVISION | WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD. | | | | | |
| | MISCELLANEOUS INFORMATION: | | | | | |
| | PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: WILHELM KRAHN | | | | | |
| 6. SIGNATURE | THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  JACOB FRIESSEN 04/20/2022 SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE | | | | | |

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

| | | | | | |
|----------|-----------|---------|-----------------|---------|-------------|
| FILE NO. | CP-1905 | POD NO. | POD1 | TRN NO. | 720063 |
| LOCATION | 2 215 282 | 1.4.1 | WELL TAG ID NO. | 21503 | PAGE 2 OF 2 |



APPENDIX B

Photographic Log



Photographic Log

San Mateo Stebbins Water Management, LLC

Shinnery Oaks SWD #003

Incident Number: nAPP2412348563



Photograph 1

Date: 5/14/24

Description: Liner Inspection

View: South



Photograph 2

Date: 5/14/24

Description: Liner Inspection

View: West



Photograph 3

Date: 5/14/24

Description: Liner Inspection

View: North



Photograph 4

Date: 5/14/24

Description: Liner Inspection

View: East



Photographic Log

San Mateo Stebbins Water Management, LLC

Shinnery Oaks SWD #003

Incident Number: nAPP2412348563



Photograph 5

Date: 5/14/24

Description: Liner Inspection

View: North



Photograph 6

Date: 5/14/24

Description: Liner Inspection

View: West



Photograph 7

Date: 5/14/24

Description: Liner Inspection

View: Southeast



Photograph 8

Date: 6/03/24

Description: Delineation Sampling (SS04A)

View: South



APPENDIX C

NMOCD Correspondence

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 342664

QUESTIONS

| | |
|---|--|
| Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240 | OGRID: 328762 |
| | Action Number: 342664 |
| | Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L) |

QUESTIONS

| | |
|------------------|--|
| Prerequisites | |
| Incident ID (n#) | nAPP2412348563 |
| Incident Name | NAPP2412348563 SHINNERY OAKS SWD #003 @ 30-015-45535 |
| Incident Type | Produced Water Release |
| Incident Status | Initial C-141 Approved |
| Incident Well | [30-015-45535] SHINNERY OAK SWD #003 |

| | |
|----------------------------|------------------------|
| Location of Release Source | |
| Site Name | Shinnery Oaks SWD #003 |
| Date Release Discovered | 05/02/2024 |
| Surface Owner | Private |

| | |
|---|-------------------------|
| Liner Inspection Event Information | |
| Please answer all the questions in this group. | |
| What is the liner inspection surface area in square feet | 41,406 |
| Have all the impacted materials been removed from the liner | Yes |
| Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC | 05/14/2024 |
| Time liner inspection will commence | 09:00 AM |
| Please provide any information necessary for observers to liner inspection | N/A |
| Please provide any information necessary for navigation to liner inspection site | 32.5112091, -104.062541 |

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 342664

CONDITIONS

| | |
|---|--|
| Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240 | OGRID: 328762 |
| | Action Number: 342664 |
| | Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|--|----------------|
| j_touchet | Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted. | 5/9/2024 |



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Shinnery Oaks SWD #003

Work Order: E405206

Job Number: 23003-0002

Received: 5/15/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/20/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/20/24



Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240

Project Name: Shinnery Oaks SWD #003
Workorder: E405206
Date Received: 5/15/2024 9:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/15/2024 9:00:00AM, under the Project Name: Shinnery Oaks SWD #003.

The analytical test results summarized in this report with the Project Name: Shinnery Oaks SWD #003 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

| | | |
|---|--|-----------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Shinnery Oaks SWD #003 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 05/20/24 15:00 |
|---|--|-----------------------------|

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SS01 - 0' | E405206-01A | Soil | 05/14/24 | 05/15/24 | Glass Jar, 2 oz. |
| SS02 - 0' | E405206-02A | Soil | 05/14/24 | 05/15/24 | Glass Jar, 2 oz. |
| SS03 - 0' | E405206-03A | Soil | 05/14/24 | 05/15/24 | Glass Jar, 2 oz. |
| SS04 - 0' | E405206-04A | Soil | 05/14/24 | 05/15/24 | Glass Jar, 2 oz. |



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Shinnery Oaks SWD #003
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/20/2024 3:00:44PM

SS01 - 0'

E405206-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: EG | | Batch: 2420139 |
| Benzene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Toluene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/24 | 05/19/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Surrogate: Bromofluorobenzene | | 109 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.7 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 05/16/24 | 05/19/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: EG | | Batch: 2420139 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/24 | 05/19/24 | |
| Surrogate: Bromofluorobenzene | | 109 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.7 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: Toluene-d8 | | 108 % | 70-130 | 05/16/24 | 05/19/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2420167 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/17/24 | 05/20/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/17/24 | 05/20/24 | |
| Surrogate: n-Nonane | | 115 % | 50-200 | 05/17/24 | 05/20/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2420192 |
| Chloride | 316 | 20.0 | 1 | 05/18/24 | 05/19/24 | |



Sample Data

| | | |
|---|--|----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Shinnery Oaks SWD #003 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 5/20/2024 3:00:44PM |
|---|--|----------------------------------|

SS02 - 0'

E405206-02

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: EG | | Batch: 2420139 |
| Benzene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Toluene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/24 | 05/19/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Surrogate: Bromofluorobenzene | | 108 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.2 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: Toluene-d8 | | 109 % | 70-130 | 05/16/24 | 05/19/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: EG | | Batch: 2420139 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/24 | 05/19/24 | |
| Surrogate: Bromofluorobenzene | | 108 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 96.2 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: Toluene-d8 | | 109 % | 70-130 | 05/16/24 | 05/19/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2420167 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/17/24 | 05/20/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/17/24 | 05/20/24 | |
| Surrogate: n-Nonane | | 115 % | 50-200 | 05/17/24 | 05/20/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2420192 |
| Chloride | 65.7 | 20.0 | 1 | 05/18/24 | 05/19/24 | |



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Shinnery Oaks SWD #003
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/20/2024 3:00:44PM

SS03 - 0'

E405206-03

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: EG | | Batch: 2420139 |
| Benzene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Toluene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/24 | 05/19/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Surrogate: Bromofluorobenzene | | 106 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.9 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 05/16/24 | 05/19/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: EG | | Batch: 2420139 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/24 | 05/19/24 | |
| Surrogate: Bromofluorobenzene | | 106 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.9 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: Toluene-d8 | | 107 % | 70-130 | 05/16/24 | 05/19/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2420167 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/17/24 | 05/20/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/17/24 | 05/20/24 | |
| Surrogate: n-Nonane | | 117 % | 50-200 | 05/17/24 | 05/20/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2420192 |
| Chloride | 170 | 20.0 | 1 | 05/18/24 | 05/19/24 | |



Sample Data

Matador Resources, LLC.
5400 LBJ Freeway, Suite 1500
Dallas TX, 75240

Project Name: Shinnery Oaks SWD #003
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/20/2024 3:00:44PM

SS04 - 0'

E405206-04

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|----------|-------------|----------|----------------|
| Volatile Organic Compounds by EPA 8260B | | | | | | |
| | mg/kg | mg/kg | | Analyst: EG | | Batch: 2420139 |
| Benzene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Toluene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| o-Xylene | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 05/16/24 | 05/19/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 05/16/24 | 05/19/24 | |
| Surrogate: Bromofluorobenzene | | 108 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.3 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: Toluene-d8 | | 109 % | 70-130 | 05/16/24 | 05/19/24 | |
| Nonhalogenated Organics by EPA 8015D - GRO | | | | | | |
| | mg/kg | mg/kg | | Analyst: EG | | Batch: 2420139 |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 05/16/24 | 05/19/24 | |
| Surrogate: Bromofluorobenzene | | 108 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 98.3 % | 70-130 | 05/16/24 | 05/19/24 | |
| Surrogate: Toluene-d8 | | 109 % | 70-130 | 05/16/24 | 05/19/24 | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | | | | | | |
| | mg/kg | mg/kg | | Analyst: KM | | Batch: 2420167 |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 05/17/24 | 05/20/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 05/17/24 | 05/20/24 | |
| Surrogate: n-Nonane | | 122 % | 50-200 | 05/17/24 | 05/20/24 | |
| Anions by EPA 300.0/9056A | | | | | | |
| | mg/kg | mg/kg | | Analyst: IY | | Batch: 2420192 |
| Chloride | 218 | 20.0 | 1 | 05/18/24 | 05/19/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/20/2024 3:00:44PM |

Volatile Organic Compounds by EPA 8260B

Analyst: EG

| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2420139-BLK1)

Prepared: 05/16/24 Analyzed: 05/18/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.554 | | 0.500 | | 111 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.491 | | 0.500 | | 98.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.539 | | 0.500 | | 108 | 70-130 | | | |

LCS (2420139-BS1)

Prepared: 05/16/24 Analyzed: 05/18/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.56 | 0.0250 | 2.50 | | 102 | 70-130 | | | |
| Ethylbenzene | 2.68 | 0.0250 | 2.50 | | 107 | 70-130 | | | |
| Toluene | 2.58 | 0.0250 | 2.50 | | 103 | 70-130 | | | |
| o-Xylene | 2.76 | 0.0250 | 2.50 | | 110 | 70-130 | | | |
| p,m-Xylene | 5.56 | 0.0500 | 5.00 | | 111 | 70-130 | | | |
| Total Xylenes | 8.32 | 0.0250 | 7.50 | | 111 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.522 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.485 | | 0.500 | | 96.9 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.524 | | 0.500 | | 105 | 70-130 | | | |

LCS Dup (2420139-BSD1)

Prepared: 05/16/24 Analyzed: 05/18/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--------|----|--|
| Benzene | 2.48 | 0.0250 | 2.50 | | 99.2 | 70-130 | 3.12 | 23 | |
| Ethylbenzene | 2.68 | 0.0250 | 2.50 | | 107 | 70-130 | 0.0186 | 27 | |
| Toluene | 2.56 | 0.0250 | 2.50 | | 103 | 70-130 | 0.738 | 24 | |
| o-Xylene | 2.80 | 0.0250 | 2.50 | | 112 | 70-130 | 1.39 | 27 | |
| p,m-Xylene | 5.64 | 0.0500 | 5.00 | | 113 | 70-130 | 1.39 | 27 | |
| Total Xylenes | 8.44 | 0.0250 | 7.50 | | 113 | 70-130 | 1.39 | 27 | |
| Surrogate: Bromofluorobenzene | 0.540 | | 0.500 | | 108 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.471 | | 0.500 | | 94.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.529 | | 0.500 | | 106 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/20/2024 3:00:44PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: EG

| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2420139-BLK1) Prepared: 05/16/24 Analyzed: 05/18/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.554 | | 0.500 | | 111 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.491 | | 0.500 | | 98.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.539 | | 0.500 | | 108 | 70-130 | | | |

LCS (2420139-BS2) Prepared: 05/16/24 Analyzed: 05/18/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 46.9 | 20.0 | 50.0 | | 93.9 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.563 | | 0.500 | | 113 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.477 | | 0.500 | | 95.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.532 | | 0.500 | | 106 | 70-130 | | | |

LCS Dup (2420139-BSD2) Prepared: 05/16/24 Analyzed: 05/18/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 46.4 | 20.0 | 50.0 | | 92.9 | 70-130 | 1.11 | 20 | |
| Surrogate: Bromofluorobenzene | 0.552 | | 0.500 | | 110 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.482 | | 0.500 | | 96.3 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.543 | | 0.500 | | 109 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/20/2024 3:00:44PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2420167-BLK1) | | | | | Prepared: 05/17/24 Analyzed: 05/19/24 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 58.5 | | 50.0 | | 117 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2420167-BS1) | | | | | Prepared: 05/17/24 Analyzed: 05/19/24 | | | | |
| Diesel Range Organics (C10-C28) | 289 | 25.0 | 250 | | 115 | 38-132 | | | |
| Surrogate: n-Nonane | 57.1 | | 50.0 | | 114 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|------|----|--|
| LCS Dup (2420167-BSD1) | | | | | Prepared: 05/17/24 Analyzed: 05/19/24 | | | | |
| Diesel Range Organics (C10-C28) | 283 | 25.0 | 250 | | 113 | 38-132 | 1.89 | 20 | |
| Surrogate: n-Nonane | 58.1 | | 50.0 | | 116 | 50-200 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------------|---------------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 5/20/2024 3:00:44PM |

Anions by EPA 300.0/9056A

Analyst: IY

| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|------------------------|-----|------|-----|--|---------------------------------------|--------|------|----|--|
| Blank (2420192-BLK1) | | | | | Prepared: 05/18/24 Analyzed: 05/19/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2420192-BS1) | | | | | Prepared: 05/18/24 Analyzed: 05/19/24 | | | | |
| Chloride | 244 | 20.0 | 250 | | 97.5 | 90-110 | | | |
| LCS Dup (2420192-BSD1) | | | | | Prepared: 05/18/24 Analyzed: 05/19/24 | | | | |
| Chloride | 252 | 20.0 | 250 | | 101 | 90-110 | 3.33 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

| | | | |
|------------------------------|------------------|------------------------|----------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 05/20/24 15:00 |

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

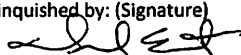
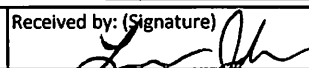
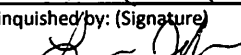
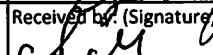
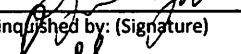
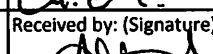
DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



| | | | | | | | | | | | | | | | | | | | | | | |
|---|--------------|---------|-------------------|---|------------|---------|-------|---|-------------|-------------|-------------|---|----------|----------|----------|-------------|------|---------|----|------|--|--|
| Client: Matador Production Company | | | | Bill To | | | | Lab Use Only | | | | TAT | | | | EPA Program | | | | | | |
| Project: Shinnery Oaks SWD #003 | | | | Attention: Ensolum LLC | | | | Lab WO# | | Job Number | | 1D | 2D | 3D | Standard | CWA | SDWA | | | | | |
| Project Manager: Ashley Giovenago | | | | Address: on file | | | | E 405206 | | 230030002 | | | | | x | | | | | | | |
| Address: 3122 National Parks Hwy | | | | City, State, Zip: | | | | Analysis and Method | | | | | | | | | | | | RCRA | | |
| City, State, Zip: Carlsbad NM, 88220 | | | | Phone: 575-988-0055 | | | | TPH GRO/DRO/ORO by 8015 | BTX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TCEQ TPH | BGDOC NM | GDOC TX | State | | | | | | |
| Phone: 575-988-0055 | | | | Email: agiovenago@ensolum.com | | | | | | | | | | | | NM | CO | UT | AZ | TX | | |
| Email: agiovenago@ensolum.com | | | | | | | | | | | | | | | | | | | | | | |
| Report due by: | | | | | | | | | | | | | | | | | | Remarks | | | | |
| Time Sampled | Date Sampled | Matrix | No. of Containers | Sample ID | Lab Number | | | | | | | | | | | | | | | | | |
| 9:54 | 5/14/2024 | Soil | 1 | SS01 - 0' | 1 | | | | | | | | | | x | | | | | | | |
| 9:56 | 5/14/2024 | Soil | 1 | SS02 - 0' | 2 | | | | | | | | | | x | | | | | | | |
| 9:59 | 5/14/2024 | Soil | 1 | SS03 - 0' | 3 | | | | | | | | | | x | | | | | | | |
| 11:05 | 5/14/2024 | Soil | 1 | SS04 - 0' | 4 | | | | | | | | | | x | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Additional Instructions: Please CC: cburton@ensolum.com, agiovenago@ensolum.com, chamilton@ensolum.com, ehaff@ensolum.com, iestrella@ensolum.com | | | | | | | | | | | | | | | | | | | | | | |
| I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. | | | | | | | | | | | | Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. | | | | | | | | | | |
| Sampled by: _____ | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | Lab Use Only | | | | | | | | | | | | | | |
|  | | 5/14/24 | 1:15 |  | | 5.14.24 | 15:45 | Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | T1 _____ T2 _____ T3 _____ | | | | | | | | | | | | | | |
|  | | 5.14.24 | 1700 |  | | 5.14.24 | 1700 | | | | | | | | | | | | | | | |
| Relinquished by: (Signature) | | Date | Time | Received by: (Signature) | | Date | Time | AVG Temp °C _____ | | | | | | | | | | | | | | |
|  | | 5.14.24 | 2400 |  | | 5/15/24 | 900 | 4 | | | | | | | | | | | | | | |
| Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ | | | | | | | | | | | | Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA | | | | | | | | | | |
| Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report. | | | | | | | | | | | | | | | | | | | | | | |

Envirotech Analytical Laboratory

Printed: 5/15/2024 2:54:16PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| | | | | | |
|---------|-------------------------|-----------------|----------------------------|----------------|-----------------|
| Client: | Matador Resources, LLC. | Date Received: | 05/15/24 09:00 | Work Order ID: | E405206 |
| Phone: | (972) 371-5200 | Date Logged In: | 05/15/24 13:41 | Logged In By: | Angelina Pineda |
| Email: | agiovngo@ensolum.com | Due Date: | 05/21/24 17:00 (4 day TAT) | | |

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

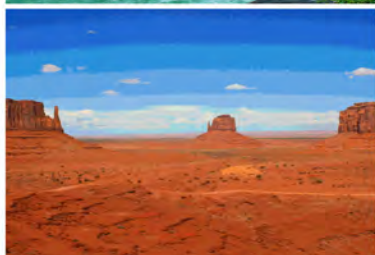
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Shinnery Oaks SWD #003

Work Order: E406031

Job Number: 23003-0002

Received: 6/5/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/11/24

5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 6/11/24

Ashley Giovengo
5400 LBJ Freeway, Suite 1500
Dallas, TX 75240



Project Name: Shinnery Oaks SWD #003
Workorder: E406031
Date Received: 6/5/2024 12:00:00PM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/5/2024 12:00:00PM, under the Project Name: Shinnery Oaks SWD #003.

The analytical test results summarized in this report with the Project Name: Shinnery Oaks SWD #003 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

| | | | |
|------------------------------|------------------|------------------------|----------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 06/11/24 12:17 |

| Client Sample ID | Lab Sample ID | Matrix | Sampled | Received | Container |
|------------------|---------------|--------|----------|----------|------------------|
| SS04A-0' | E406031-01A | Soil | 06/03/24 | 06/05/24 | Glass Jar, 2 oz. |



Sample Data

| | | |
|---|--|-----------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Shinnery Oaks SWD #003 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 6/11/2024 12:17:44PM |
|---|--|-----------------------------------|

SS04A-0'

E406031-01

| Analyte | Result | Reporting Limit | Dilution | Prepared | Analyzed | Notes |
|---|--------|-----------------|--------------|----------|----------------|-------|
| | | | | | | |
| Volatile Organic Compounds by EPA 8260B | mg/kg | mg/kg | Analyst: RKS | | Batch: 2423082 | |
| Benzene | ND | 0.0250 | 1 | 06/05/24 | 06/07/24 | |
| Ethylbenzene | ND | 0.0250 | 1 | 06/05/24 | 06/07/24 | |
| Toluene | ND | 0.0250 | 1 | 06/05/24 | 06/07/24 | |
| o-Xylene | ND | 0.0250 | 1 | 06/05/24 | 06/07/24 | |
| p,m-Xylene | ND | 0.0500 | 1 | 06/05/24 | 06/07/24 | |
| Total Xylenes | ND | 0.0250 | 1 | 06/05/24 | 06/07/24 | |
| | | | | | | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 06/05/24 | 06/07/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.4 % | 70-130 | 06/05/24 | 06/07/24 | |
| Surrogate: Toluene-d8 | | 99.2 % | 70-130 | 06/05/24 | 06/07/24 | |
| | | | | | | |
| Nonhalogenated Organics by EPA 8015D - GRO | mg/kg | mg/kg | Analyst: RKS | | Batch: 2423082 | |
| Gasoline Range Organics (C6-C10) | ND | 20.0 | 1 | 06/05/24 | 06/07/24 | |
| | | | | | | |
| Surrogate: Bromofluorobenzene | | 102 % | 70-130 | 06/05/24 | 06/07/24 | |
| Surrogate: 1,2-Dichloroethane-d4 | | 97.4 % | 70-130 | 06/05/24 | 06/07/24 | |
| Surrogate: Toluene-d8 | | 99.2 % | 70-130 | 06/05/24 | 06/07/24 | |
| | | | | | | |
| Nonhalogenated Organics by EPA 8015D - DRO/ORO | mg/kg | mg/kg | Analyst: KM | | Batch: 2423093 | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | 1 | 06/06/24 | 06/06/24 | |
| Oil Range Organics (C28-C36) | ND | 50.0 | 1 | 06/06/24 | 06/06/24 | |
| | | | | | | |
| Surrogate: n-Nonane | | 95.3 % | 50-200 | 06/06/24 | 06/06/24 | |
| | | | | | | |
| Anions by EPA 300.0/9056A | mg/kg | mg/kg | Analyst: DT | | Batch: 2423115 | |
| Chloride | 219 | 20.0 | 1 | 06/06/24 | 06/07/24 | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 6/11/2024 12:17:44PM |

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

| Analyte | Result | Reporting Limit | Spike Level | Source Result | Rec | Rec Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------------|---------------|-----|------------|-----|-----------|-------|
| | mg/kg | mg/kg | mg/kg | mg/kg | % | % | % | % | |

Blank (2423082-BLK1) Prepared: 06/05/24 Analyzed: 06/07/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | ND | 0.0250 | | | | | | | |
| Ethylbenzene | ND | 0.0250 | | | | | | | |
| Toluene | ND | 0.0250 | | | | | | | |
| o-Xylene | ND | 0.0250 | | | | | | | |
| p,m-Xylene | ND | 0.0500 | | | | | | | |
| Total Xylenes | ND | 0.0250 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.523 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.481 | | 0.500 | | 96.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.500 | | 0.500 | | 100 | 70-130 | | | |

LCS (2423082-BS1) Prepared: 06/05/24 Analyzed: 06/07/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|--|------|--------|--|--|--|
| Benzene | 2.56 | 0.0250 | 2.50 | | 102 | 70-130 | | | |
| Ethylbenzene | 2.56 | 0.0250 | 2.50 | | 102 | 70-130 | | | |
| Toluene | 2.45 | 0.0250 | 2.50 | | 98.0 | 70-130 | | | |
| o-Xylene | 2.72 | 0.0250 | 2.50 | | 109 | 70-130 | | | |
| p,m-Xylene | 5.36 | 0.0500 | 5.00 | | 107 | 70-130 | | | |
| Total Xylenes | 8.08 | 0.0250 | 7.50 | | 108 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.521 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.489 | | 0.500 | | 97.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.496 | | 0.500 | | 99.1 | 70-130 | | | |

Matrix Spike (2423082-MS1) Source: E406030-03 Prepared: 06/05/24 Analyzed: 06/07/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|--|--|--|
| Benzene | 2.55 | 0.0250 | 2.50 | ND | 102 | 48-131 | | | |
| Ethylbenzene | 2.57 | 0.0250 | 2.50 | ND | 103 | 45-135 | | | |
| Toluene | 2.45 | 0.0250 | 2.50 | ND | 98.0 | 48-130 | | | |
| o-Xylene | 2.70 | 0.0250 | 2.50 | ND | 108 | 43-135 | | | |
| p,m-Xylene | 5.38 | 0.0500 | 5.00 | ND | 108 | 43-135 | | | |
| Total Xylenes | 8.08 | 0.0250 | 7.50 | ND | 108 | 43-135 | | | |
| Surrogate: Bromofluorobenzene | 0.515 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.482 | | 0.500 | | 96.4 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.499 | | 0.500 | | 99.7 | 70-130 | | | |

Matrix Spike Dup (2423082-MSD1) Source: E406030-03 Prepared: 06/05/24 Analyzed: 06/07/24

| | | | | | | | | | |
|----------------------------------|-------|--------|-------|----|------|--------|-------|----|--|
| Benzene | 2.50 | 0.0250 | 2.50 | ND | 100 | 48-131 | 1.92 | 23 | |
| Ethylbenzene | 2.56 | 0.0250 | 2.50 | ND | 102 | 45-135 | 0.117 | 27 | |
| Toluene | 2.43 | 0.0250 | 2.50 | ND | 97.3 | 48-130 | 0.717 | 24 | |
| o-Xylene | 2.72 | 0.0250 | 2.50 | ND | 109 | 43-135 | 0.960 | 27 | |
| p,m-Xylene | 5.43 | 0.0500 | 5.00 | ND | 109 | 43-135 | 0.925 | 27 | |
| Total Xylenes | 8.15 | 0.0250 | 7.50 | ND | 109 | 43-135 | 0.936 | 27 | |
| Surrogate: Bromofluorobenzene | 0.522 | | 0.500 | | 104 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.466 | | 0.500 | | 93.1 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.498 | | 0.500 | | 99.6 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 6/11/2024 12:17:44PM |

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

Blank (2423082-BLK1) Prepared: 06/05/24 Analyzed: 06/07/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | ND | 20.0 | | | | | | | |
| Surrogate: Bromofluorobenzene | 0.523 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.481 | | 0.500 | | 96.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.500 | | 0.500 | | 100 | 70-130 | | | |

LCS (2423082-BS2) Prepared: 06/05/24 Analyzed: 06/07/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 46.6 | 20.0 | 50.0 | | 93.2 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.514 | | 0.500 | | 103 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.470 | | 0.500 | | 94.0 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.507 | | 0.500 | | 101 | 70-130 | | | |

Matrix Spike (2423082-MS2) Source: E406030-03 Prepared: 06/05/24 Analyzed: 06/07/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10) | 47.5 | 20.0 | 50.0 | ND | 95.0 | 70-130 | | | |
| Surrogate: Bromofluorobenzene | 0.523 | | 0.500 | | 105 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.479 | | 0.500 | | 95.8 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.498 | | 0.500 | | 99.6 | 70-130 | | | |

Matrix Spike Dup (2423082-MSD2) Source: E406030-03 Prepared: 06/05/24 Analyzed: 06/07/24

| | | | | | | | | | |
|----------------------------------|-------|------|-------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10) | 45.4 | 20.0 | 50.0 | ND | 90.7 | 70-130 | 4.59 | 20 | |
| Surrogate: Bromofluorobenzene | 0.529 | | 0.500 | | 106 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | 0.466 | | 0.500 | | 93.2 | 70-130 | | | |
| Surrogate: Toluene-d8 | 0.505 | | 0.500 | | 101 | 70-130 | | | |



QC Summary Data

| | | | |
|------------------------------|------------------|------------------------|----------------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | Reported: |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 6/11/2024 12:17:44PM |

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| Blank (2423093-BLK1) | | | | | Prepared: 06/06/24 Analyzed: 06/06/24 | | | | |
| Diesel Range Organics (C10-C28) | ND | 25.0 | | | | | | | |
| Oil Range Organics (C28-C36) | ND | 50.0 | | | | | | | |
| Surrogate: n-Nonane | 46.3 | | 50.0 | | 92.6 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|--|---------------------------------------|--------|--|--|--|
| LCS (2423093-BS1) | | | | | Prepared: 06/06/24 Analyzed: 06/06/24 | | | | |
| Diesel Range Organics (C10-C28) | 275 | 25.0 | 250 | | 110 | 38-132 | | | |
| Surrogate: n-Nonane | 43.7 | | 50.0 | | 87.3 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|--|--|
| Matrix Spike (2423093-MS1) | | | | | Source: E406036-03 | | Prepared: 06/06/24 Analyzed: 06/06/24 | | |
| Diesel Range Organics (C10-C28) | 273 | 25.0 | 250 | ND | 109 | 38-132 | | | |
| Surrogate: n-Nonane | 42.8 | | 50.0 | | 85.5 | 50-200 | | | |

| | | | | | | | | | |
|---------------------------------|------|------|------|----|--------------------|--------|---------------------------------------|----|--|
| Matrix Spike Dup (2423093-MSD1) | | | | | Source: E406036-03 | | Prepared: 06/06/24 Analyzed: 06/06/24 | | |
| Diesel Range Organics (C10-C28) | 277 | 25.0 | 250 | ND | 111 | 38-132 | 1.80 | 20 | |
| Surrogate: n-Nonane | 47.6 | | 50.0 | | 95.1 | 50-200 | | | |



QC Summary Data

| | | |
|---|--|---------------------------------------|
| Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240 | Project Name: Shinnery Oaks SWD #003 Project Number: 23003-0002 Project Manager: Ashley Giovengo | Reported: 6/11/2024 12:17:44PM |
|---|--|---------------------------------------|

Anions by EPA 300.0/9056A

Analyst: DT

| Analyte | Result mg/kg | Reporting Limit mg/kg | Spike Level mg/kg | Source Result mg/kg | Rec % | Rec Limits % | RPD % | RPD Limit % | Notes |
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|
|---------|-----------------|-----------------------------|-------------------------|---------------------------|----------|--------------------|----------|-------------------|-------|

| | | | | | | | | | |
|---------------------------------|-----|------|-----|------|---------------------------------------|--------|---------------------------------------|----|--|
| Blank (2423115-BLK1) | | | | | Prepared: 06/06/24 Analyzed: 06/06/24 | | | | |
| Chloride | ND | 20.0 | | | | | | | |
| LCS (2423115-BS1) | | | | | Prepared: 06/06/24 Analyzed: 06/06/24 | | | | |
| Chloride | 256 | 20.0 | 250 | | 102 | 90-110 | | | |
| Matrix Spike (2423115-MS1) | | | | | Source: E406032-01 | | Prepared: 06/06/24 Analyzed: 06/06/24 | | |
| Chloride | 314 | 20.0 | 250 | 51.7 | 105 | 80-120 | | | |
| Matrix Spike Dup (2423115-MSD1) | | | | | Source: E406032-01 | | Prepared: 06/06/24 Analyzed: 06/06/24 | | |
| Chloride | 305 | 20.0 | 250 | 51.7 | 101 | 80-120 | 2.96 | 20 | |

QC Summary Report Comment:
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.
Therefore, hand calculated values may differ slightly.



Definitions and Notes

| | | | |
|------------------------------|------------------|------------------------|----------------|
| Matador Resources, LLC. | Project Name: | Shinnery Oaks SWD #003 | |
| 5400 LBJ Freeway, Suite 1500 | Project Number: | 23003-0002 | Reported: |
| Dallas TX, 75240 | Project Manager: | Ashley Giovengo | 06/11/24 12:17 |

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Page 1 of 1



envirotech

Envirotech Analytical Laboratory

Printed: 6/5/2024 1:19:24PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

| | | | | | |
|---------|-------------------------|-----------------|----------------------------|----------------|----------------|
| Client: | Matador Resources, LLC. | Date Received: | 06/05/24 12:00 | Work Order ID: | E406031 |
| Phone: | (972) 371-5200 | Date Logged In: | 06/05/24 13:17 | Logged In By: | Alexa Michaels |
| Email: | agiovngo@ensolum.com | Due Date: | 06/11/24 17:00 (4 day TAT) | | |

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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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 359980

QUESTIONS

| | | |
|---|----------------|---|
| Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240 | OGRID: | 328762 |
| | Action Number: | 359980 |
| | Action Type: | [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | | |

QUESTIONS

| | |
|------------------|--|
| Prerequisites | |
| Incident ID (n#) | nAPP2412348563 |
| Incident Name | NAPP2412348563 SHINNERY OAKS SWD #003 @ 30-015-45535 |
| Incident Type | Produced Water Release |
| Incident Status | Remediation Closure Report Received |
| Incident Well | [30-015-45535] SHINNERY OAK SWD #003 |

| | |
|--|------------------------|
| Location of Release Source | |
| Please answer all the questions in this group. | |
| Site Name | SHINNERY OAKS SWD #003 |
| Date Release Discovered | 05/02/2024 |
| Surface Owner | Private |

| | |
|--|------------------------|
| Incident Details | |
| Please answer all the questions in this group. | |
| Incident Type | Produced Water 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 watercourse | No |
| Has this release endangered or does it have a reasonable probability of endangering public health | No |
| Has this release substantially damaged or will it substantially damage property or the environment | No |
| Is this release of a volume that is or may with reasonable probability be detrimental to fresh water | No |

| | |
|--|---|
| 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. |
| Produced Water Released (bbls) Details | Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 20 BBL Recovered: 20 BBL Lost: 0 BBL. |
| Is the concentration of chloride in the produced water >10,000 mg/l | No |
| Condensate Released (bbls) Details | Not answered. |
| 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 Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered. |

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QUESTIONS, Page 2

Action 359980

QUESTIONS (continued)

| | | |
|---|----------------|---|
| Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240 | OGRID: | 328762 |
| | Action Number: | 359980 |
| | 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 | No |
| Reasons why this would be considered a submission for a notification of a major release | Unavailable. |
| With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.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 safety 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 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 appropriately | True |
| If all the actions described above have not been undertaken, explain why | Not answered. |

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my 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 releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/01/2024 |
|--|--|

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QUESTIONS, Page 3

Action 359980

QUESTIONS (continued)

| | |
|---|---|
| Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240 | OGRID: |
| | 328762 |
| | Action Number: |
| | 359980 |
| | 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 | NM OSE iWaters Database Search |
| 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 100 and 200 (ft.) |
| Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) | Greater than 5 (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 for domestic or stock watering purposes | Between ½ and 1 (mi.) |
| Any other fresh water well or spring | Between 1 and 5 (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 | Between 1 and 5 (mi.) |
| An (non-karst) unstable area | Greater than 5 (mi.) |
| Categorize the risk of this well / site being in a karst geology | Medium |
| A 100-year floodplain | Between ½ and 1 (mi.) |
| Did the release impact areas not on an exploration, development, production, or storage site | No |

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 | Yes |
| 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 | 05/14/2024 |
| On what date will (or did) the final sampling or liner inspection occur | 05/14/2024 |
| On what date will (or was) the remediation complete(d) | 05/14/2024 |
| What is the estimated surface area (in square feet) that will be remediated | 0 |
| What is the estimated volume (in cubic yards) that will be remediated | 0 |
| 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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QUESTIONS, Page 4

Action 359980

QUESTIONS (continued)

| | |
|---|---|
| Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240 | OGRID: 328762 |
| | Action Number: 359980 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |
| | |

QUESTIONS

| | |
|--|--|
| Remediation Plan (continued) | |
| <i>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.</i> | |
| This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: | |
| <i>(Select all answers below that apply.)</i> | |
| Is (or was) there affected material present needing to be removed | Yes |
| Is (or was) there a power wash of the lined containment area (to be) performed | Yes |
| OTHER (Non-listed remedial process) | No |
| <i>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.</i> | |
| I hereby certify that the information given above is true and complete to the best of my 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 releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. | |
| I hereby agree and sign off to the above statement | Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/01/2024 |
| <i>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.</i> | |

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QUESTIONS, Page 6

Action 359980

QUESTIONS (continued)

| | |
|---|----------------|
| Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240 | OGRID: |
| | 328762 |
| | Action Number: |
| | 359980 |
| Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) | |

QUESTIONS

| Liner Inspection Information | |
|---|------------|
| Last liner inspection notification (C-141L) recorded | 342664 |
| Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC | 05/14/2024 |
| Was all the impacted materials removed from the liner | Yes |
| What was the liner inspection surface area in square feet | 41406 |

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation 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 | Yes |
| What was the total surface area (in square feet) remediated | 0 |
| What was the total volume (cubic yards) remediated | 0 |
| Summarize any additional remediation activities not included by answers (above) | N/A |

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my 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 releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

| | |
|--|--|
| I hereby agree and sign off to the above statement | Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/01/2024 |
|--|--|

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CONDITIONS

Action 359980

CONDITIONS

| | |
|---|---|
| Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240 | OGRID: 328762 |
| | Action Number: 359980 |
| | Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

CONDITIONS

| | | |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| scwells | None | 7/1/2024 |