December 13, 2023

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 nAPP2332560159
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 November 21, 2023, 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 nAPP2332560159.

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 November 21, 2023, a nipple on a 22,000-barrel (bbl) tank developed a hole, which resulted in the release of 2,880 bbls of produced water inside the concrete secondary containment. A vacuum truck successfully recovered all 2,880 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 November 22, 2023. The release was assigned Incident Number nAPP2332560159. A 48-hour advance notice of liner inspection was provided via email to the NMOCD office on November 29, 2023. 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 318 feet northeast of the 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

LINER INTEGRITY INSPECTION AND DELINEATION SOIL SAMPLING ACTIVITIES

On December 4, 2023, 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 November 29, 2023 (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 Mohr Method titration. 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.

Laboratory analytical results for all lateral delineation soil samples (SS01 through SS04) 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.

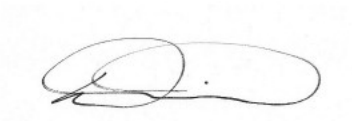
CLOSURE REQUEST

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) collected at ground surface verified that the release did not breach the concrete containment wall. Based on initial response efforts, and a reported depth to groundwater of 160 feet bgs, San Mateo respectfully requests closure for Incident Number nAPP2332560159.

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 Engineer



Daniel R. Moir, PG
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

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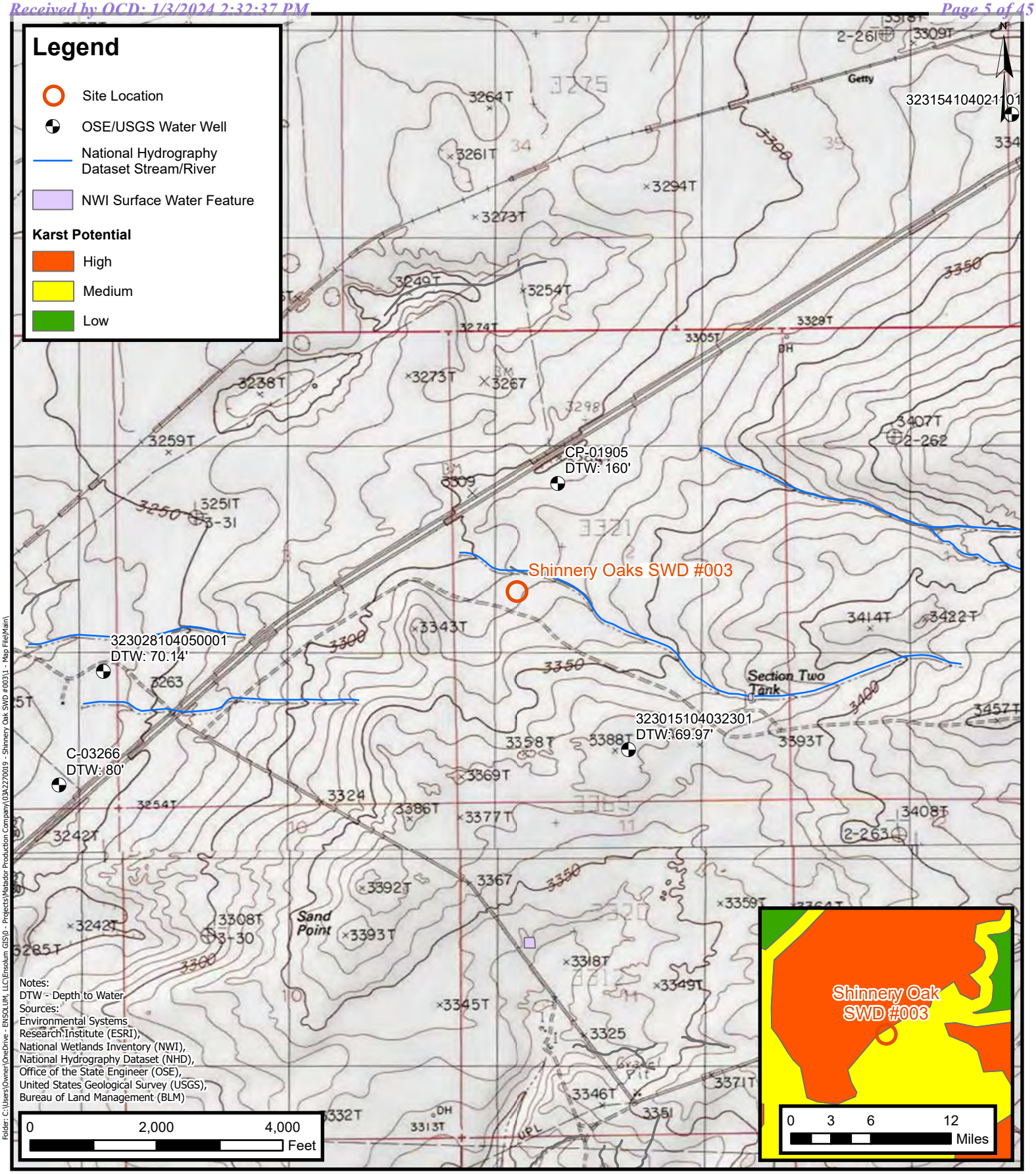
FIGURES



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Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

San Mateo Stebbins Water Management, LLC
Shinnery Oaks SWD #003
Incident Number: nAPP2332560159
Unit E, Section 02, Township 21S, Range 28E Eddy Co., New Mexico

FIGURE 1

Folder: C:\Users\Owner\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Matador Production Company\03A2270019 - Shinnery Oak SWD #003\1 - Map File\Main\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Sample Locations

San Mateo Stebbins Water Management, LLC
Shinnery Oaks SWD #003
Incident Number: nAPP2332560159
Unit E, Section 02, Township 21S, Range 28E
Eddy Co., New Mexico

FIGURE 2

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TABLES

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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**
Preliminary Assessment Soil Samples										
SS01	12/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS02	12/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	<20.0
SS03	12/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	110
SS04	12/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<20.0	471

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated

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APPENDIX A

Form C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2332560159
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party San Mateo Stebbins Water Management, LLC	OGRID 328762
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # *(assigned by OCD)*
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.5112091 Longitude -104.062541
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Shinnery Oak SWD #003	Site Type SWD
Date Release Discovered 11/21/2023	API# *30-015-45535*

Unit Letter	Section	Township	Range	County
E	02	21S	28E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 2,880 bbls	Volume Recovered (bbls) 2,880 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☒ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Nipple on 22,000 bbl tank developed a hole which resulted in the release of 2,880 bbls of produced water into lined secondary containment. All fluid was recovered via vac trucks.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2332560159
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 11/21/2023 via website.	

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.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: Clint Talley

Date: 11/22/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: _____

Date: _____

Incident ID	nAPP2332560159
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	160 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2332560159
District RP	
Facility ID	
Application ID	

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.

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: Clint Talley

Date: 12/11/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: _____

Date: _____

Incident ID	nAPP2332560159
District RP	
Facility ID	
Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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.

Printed Name: Clint Talley Title: EHS Supervisor

Signature: Clint Talley Date: 12/11/2023

email: Clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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APPENDIX B

Well Log and Record

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
CP 01905 POD1		CP	ED	1	4	1	02	21S	28E	588251	3598010	557	210	160	50
C 03266 POD1		CUB	ED	3	4	4	04	21S	28E	585844	3596555*	2400	260	80	180
CP 01908 POD1		CP	ED	4	4	3	26	20S	29E	589592	3600462	3346	707	260	447
C 03267 POD1		CUB	ED	4	3	3	04	21S	28E	584833	3596541*	3358	52	40	12
CP 01202 POD1		CP	ED	4	4	3	26	20S	29E	589569	3600512	3381	173	158	15
CP 00516		CP	ED	4	4	4	12	21S	28E	590901	3594984*	3791	275	205	70
CP 00759		CP	ED		4	2	28	20S	29E	586984	3601360*	4016	205	90	115
CP 01861 POD1		CP	ED	4	1	4	08	21S	28E	584023	3595285	4594	160	70	90

Average Depth to Water: **132 feet**
Minimum Depth: **40 feet**
Maximum Depth: **260 feet**

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 588054.87 **Northing (Y):** 3597488.84 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

12/11/23 7:32 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
21003	CP 01905 POD1	1	4	1	02	21S	28E	588251	3598010

Driller License: 1753 **Driller Company:** VANGUARD WELL RESOURCES, LLC

Driller Name: FRIESSEN, JACOBONTEE.NER

Drill Start Date: 04/07/2022 **Drill Finish Date:** 04/08/2022 **Plug Date:**

Log File Date: 04/26/2022 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:** 5 GPM

Casing Size: 5.00 **Depth Well:** 210 feet **Depth Water:** 160 feet

Water Bearing Stratifications:	Top	Bottom	Description
	163	194	Other/Unknown

Casing Perforations:	Top	Bottom
	170	210

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APPENDIX C

NMOCD Correspondence

From: Wells, Shelly, EMNRD
To: Ashley Giovengo
Cc: clinton.talley@matadorresources.com; Jason Touchet; Chad Hamilton; Ethan Haft; Cole Burton; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] 48-hour Liner Inspection Notification - Matador Production - Shinnery Oak SWD #003
Date: Wednesday, November 29, 2023 4:11:49 PM
Attachments: image001.png
image002.png
image003.png
image004.png

[**EXTERNAL EMAIL**]

Good afternoon Ashley,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520|Shelly.Wells@emnrd.nm.gov
http://www.emnrd.state.nm.us/OCD/

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Wednesday, November 29, 2023 3:51 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>; Chad Hamilton <chamilton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Cole Burton <cburton@ensolum.com>
Subject: [EXTERNAL] 48-hour Liner Inspection Notification - Matador Production - Shinnery Oak SWD #003

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

Hello,

We intend to perform a liner integrity inspection at Matador Production Company's Shinnery Oak SWD #003 (*nAPP2332560159*) on Monday, December 4, 2023, at 09:00 am MST.

Please let us know if you plan to be onsite to oversee the inspection.

Thanks,

Ashley Giovengo
Senior Engineer
575-988-0055
Ensolum, LLC

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APPENDIX D

Photographic Log

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Photographic Log
San Mateo Stebbins Water Management, LLC
Shinnery Oaks SWD #003
Incident Number: nAPP2332560159

Photograph 5 Date: 12/04/2023
Description: Delineation Sampling
View: North

Photograph 6 Date: 12/04/2023
Description: Delineation Sampling
View: West

Photograph 7 Date: 12/04/2023
Description: Liner Inspection
View: East

Photograph 8 Date: 12/04/2023
Description: Delineation Sampling
View: South

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APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

San Mateo Stebbins Water Management, LLC

Project Name: Shinnery Oaks SWD #003

Work Order: E312024

Job Number: 23052-0001

Received: 12/5/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/14/23

Date Reported: 12/14/23

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

Project Name: Shinnery Oaks SWD #003
Workorder: E312024
Date Received: 12/5/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/5/2023 7:30:00AM, 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 reguarding 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
ljarboe@envirotech-inc.com

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

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Sample Summary

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/23 14:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E312024-01A	Soil	12/04/23	12/05/23	Glass Jar, 2 oz.
SS02-0'	E312024-02A	Soil	12/04/23	12/05/23	Glass Jar, 2 oz.
SS03-0'	E312024-03A	Soil	12/04/23	12/05/23	Glass Jar, 2 oz.
SS04-0'	E312024-04A	Soil	12/04/23	12/05/23	Glass Jar, 2 oz.

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 2:24:00PM

SS01-0'

E312024-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349053
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: 1,2-Dichloroethane-d4		*90.2 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349053
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: 1,2-Dichloroethane-d4		*90.2 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: Toluene-d8		*99.8 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350003
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/23	12/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/23	12/11/23	
Surrogate: n-Nonane		*93.4 %*	*50-200*	*12/11/23*	*12/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2349093
Chloride	ND	20.0	1	12/08/23	12/08/23	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 2:24:00PM

SS02-0'

E312024-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349053
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349053
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: 1,2-Dichloroethane-d4		*93.1 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350003
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/23	12/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/23	12/11/23	
Surrogate: n-Nonane		*92.8 %*	*50-200*	*12/11/23*	*12/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2349093
Chloride	ND	20.0	1	12/08/23	12/08/23	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 2:24:00PM

SS03-0'

E312024-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349053
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349053
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		*105 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.2 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350003
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/23	12/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/23	12/11/23	
Surrogate: n-Nonane		*89.7 %*	*50-200*	*12/11/23*	*12/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2349093
Chloride	**110**	20.0	1	12/08/23	12/08/23	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 2:24:00PM

SS04-0'

E312024-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2349053
Benzene	ND	0.0250	1	12/05/23	12/05/23	
Ethylbenzene	ND	0.0250	1	12/05/23	12/05/23	
Toluene	ND	0.0250	1	12/05/23	12/05/23	
o-Xylene	ND	0.0250	1	12/05/23	12/05/23	
p,m-Xylene	ND	0.0500	1	12/05/23	12/05/23	
Total Xylenes	ND	0.0250	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.1 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: Toluene-d8		*98.8 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2349053
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/05/23	12/05/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: 1,2-Dichloroethane-d4		*95.1 %*	*70-130*	*12/05/23*	*12/05/23*	
Surrogate: Toluene-d8		*98.8 %*	*70-130*	*12/05/23*	*12/05/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2350003
Diesel Range Organics (C10-C28)	ND	25.0	1	12/11/23	12/11/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/11/23	12/11/23	
Surrogate: n-Nonane		*86.6 %*	*50-200*	*12/11/23*	*12/11/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2349093
Chloride	**471**	20.0	1	12/08/23	12/08/23	

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 2:24:00PM

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 (2349053-BLK1)									Prepared: 12/05/23 Analyzed: 12/05/23
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	*0.531*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.454*		*0.500*		*90.7*	*70-130*			
Surrogate: Toluene-d8	*0.506*		*0.500*		*101*	*70-130*			
LCS (2349053-BS1)									Prepared: 12/05/23 Analyzed: 12/05/23
Benzene	2.61	0.0250	2.50		104	70-130			
Ethylbenzene	2.68	0.0250	2.50		107	70-130			
Toluene	2.55	0.0250	2.50		102	70-130			
o-Xylene	2.79	0.0250	2.50		112	70-130			
p,m-Xylene	5.43	0.0500	5.00		109	70-130			
Total Xylenes	8.22	0.0250	7.50		110	70-130			
Surrogate: Bromofluorobenzene	*0.551*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.458*		*0.500*		*91.5*	*70-130*			
Surrogate: Toluene-d8	*0.497*		*0.500*		*99.4*	*70-130*			
Matrix Spike (2349053-MS1)				**Source: E312015-06**					Prepared: 12/05/23 Analyzed: 12/05/23
Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.70	0.0250	2.50	ND	108	45-135			
Toluene	2.57	0.0250	2.50	ND	103	48-130			
o-Xylene	2.74	0.0250	2.50	ND	110	43-135			
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135			
Total Xylenes	8.05	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	*0.551*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.434*		*0.500*		*86.7*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*99.9*	*70-130*			
Matrix Spike Dup (2349053-MSD1)				**Source: E312015-06**					Prepared: 12/05/23 Analyzed: 12/05/23
Benzene	2.63	0.0250	2.50	ND	105	48-131	1.17	23	
Ethylbenzene	2.69	0.0250	2.50	ND	108	45-135	0.500	27	
Toluene	2.55	0.0250	2.50	ND	102	48-130	0.645	24	
o-Xylene	2.82	0.0250	2.50	ND	113	43-135	2.88	27	
p,m-Xylene	5.50	0.0500	5.00	ND	110	43-135	3.55	27	
Total Xylenes	8.32	0.0250	7.50	ND	111	43-135	3.32	27	
Surrogate: Bromofluorobenzene	*0.561*		*0.500*		*112*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.461*		*0.500*		*92.1*	*70-130*			
Surrogate: Toluene-d8	*0.504*		*0.500*		*101*	*70-130*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 2:24:00PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2349053-BLK1)									Prepared: 12/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.531*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.454*		*0.500*		*90.7*	*70-130*			
Surrogate: Toluene-d8	*0.506*		*0.500*		*101*	*70-130*			
LCS (2349053-BS2)									Prepared: 12/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	59.6	20.0	50.0		119	70-130			
Surrogate: Bromofluorobenzene	*0.557*		*0.500*		*111*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.449*		*0.500*		*89.8*	*70-130*			
Surrogate: Toluene-d8	*0.519*		*0.500*		*104*	*70-130*			
Matrix Spike (2349053-MS2)				**Source: E312015-06**					Prepared: 12/05/23 Analyzed: 12/05/23
Gasoline Range Organics (C6-C10)	56.8	20.0	50.0	ND	114	70-130			
Surrogate: Bromofluorobenzene	*0.538*		*0.500*		*108*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.452*		*0.500*		*90.4*	*70-130*			
Surrogate: Toluene-d8	*0.506*		*0.500*		*101*	*70-130*			
Matrix Spike Dup (2349053-MSD2)				**Source: E312015-06**					Prepared: 12/05/23 Analyzed: 12/06/23
Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130	0.792	20	
Surrogate: Bromofluorobenzene	*0.551*		*0.500*		*110*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.452*		*0.500*		*90.4*	*70-130*			
Surrogate: Toluene-d8	*0.513*		*0.500*		*103*	*70-130*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 2:24:00PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2350003-BLK1)									Prepared: 12/11/23 Analyzed: 12/11/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*47.0*		*50.0*		*94.0*	*50-200*			
LCS (2350003-BS1)									Prepared: 12/11/23 Analyzed: 12/11/23
Diesel Range Organics (C10-C28)	238	25.0	250		95.3	38-132			
Surrogate: n-Nonane	*47.7*		*50.0*		*95.4*	*50-200*			
Matrix Spike (2350003-MS1)				**Source: E312024-02**					Prepared: 12/11/23 Analyzed: 12/11/23
Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	*47.6*		*50.0*		*95.1*	*50-200*			
Matrix Spike Dup (2350003-MSD1)				**Source: E312024-02**					Prepared: 12/11/23 Analyzed: 12/11/23
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.5	38-132	6.46	20	
Surrogate: n-Nonane	*47.1*		*50.0*		*94.3*	*50-200*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/2023 2:24:00PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2349093-BLK1)									Prepared: 12/08/23 Analyzed: 12/08/23
Chloride	ND	20.0							
LCS (2349093-BS1)									Prepared: 12/08/23 Analyzed: 12/08/23
Chloride	248	20.0	250		99.0	90-110			
Matrix Spike (2349093-MS1)				**Source: E312023-02**					Prepared: 12/08/23 Analyzed: 12/08/23
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2349093-MSD1)				**Source: E312023-02**					Prepared: 12/08/23 Analyzed: 12/08/23
Chloride	254	20.0	250	ND	102	80-120	0.660	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

San Mateo Stebbins Water Management, LLC	Project Name:	Shinnery Oaks SWD #003	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	12/14/23 14:24

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company.	**Bill To**
Project: Shinnery Oak SWD #003	Attention: Matador Production Company
Project Manager: Ashley Giovengo	Address: on file
Address: 3122 National Parks Hwy	City, State, Zip:
City, State, Zip: Carlsbad NM, 88220	Phone: (337)319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E312024	23052-0001				X		
							RCRA

State					
NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:03	12/4/2023	Soil	1 Jar	SS01 - 0'	1						X		
9:05	12/4/2023	Soil	1 Jar	SS02 - 0'	2						X		
9:07	12/4/2023	Soil	1 Jar	SS03 - 0'	3						X		
9:14	12/4/2023	Soil	1 Jar	SS04 - 0'	4						X		

Analysis and Method

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@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. Sampled by:

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/4/23	10:30	[signature]	12-4-23	1030
[signature]	12-4-23	1630	[signature]	12.4.23	1630
[signature]	12.4.23	2245	[signature]	12/5/23	7:30

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 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

Envirotech Analytical Laboratory

Printed: 12/5/2023 10:30:18AM

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:	12/05/23 07:30	Work Order ID:	E312024
Phone:	(972) 371-5200	Date Logged In:	12/05/23 08:41	Logged In By:	Jordan Montano
Email:	agiovngo@ensolum.com	Due Date:	12/12/23 17:00 (5 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	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample 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 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
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?	No	

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 filteration 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.

Client: San Mateo Stebbins Water Management, LLC

Project Information

Project: Shinnery Oaks SWD #003

Chain of Custody

Changes made per A. Giovengo 12/14/23 AM

Client: ~~Matador Production Company~~	
Project: ~~Shinnery Oaks SWD #003~~	
Project Manager: Ashley Giovengo	
Address: 3122 National Parks Hwy	
City, State, Zip: Carlsbad NM, 88220	
Phone: 575-988-0055	
Email: agiovengo@ensolum.com	
Report due by:	

Bill To

Attention: Matador Production Company	
Address: on file	
City, State, Zip:	
Phone: (337)319-8398	
Email: clinton.talley@matadorresources.com	

Lab Use Only

Lab WO#	Job Number
E312024	23052-0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
x					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
9:03	12/4/2023	Soil	1 Jar	SS01 - 0'	1						X		
9:05	12/4/2023	Soil	1 Jar	SS02 - 0'	2						X		
9:07	12/4/2023	Soil	1 Jar	SS03 - 0'	3						X		
9:14	12/4/2023	Soil	1 Jar	SS04 - 0'	4						X		

Analysis and Method

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@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. Sampled by:

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12/4/23	10:30	[signature]	12-4-23	1030
[signature]	12-4-23	1630	[signature]	12.4.23	1630
[signature]	12.4.23	2245	[signature]	12/5/23	7:30

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 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.

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Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS

Action 299603

QUESTIONS

Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 328762
	Action Number: 299603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2332560159**
Incident Name	**NAPP2332560159 SHINNERY OAKS SWD #003 @ 0**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SHINNERY OAKS SWD #003
Date Release Discovered	11/21/2023
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: Other | Valve | Produced Water | Released: 2,880 BBL (Unknown Released Amount) | Recovered: 2,880 BBL | Lost: 0 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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)	Nipple valve failed near the tank causing release inside the containment. All fluid recovered.

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QUESTIONS (continued)

Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 328762
	Action Number: 299603
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QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	**No, according to supplied volumes this does not appear to be a "gas only" report.**
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	**Yes**
Reasons why this would be considered a submission for a notification of a major release	**From paragraph A. "Major release" determine using:** **(1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.**
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. 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	All fluids were in the containment and all are recovered.
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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/03/2024

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QUESTIONS (continued)

Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 328762
	Action Number: 299603
	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 300 and 500 (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 1 and 5 (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	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (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	12/04/2023
On what date will (or did) the final sampling or liner inspection occur	12/04/2023
On what date will (or was) the remediation complete(d)	12/04/2023
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 (continued)

Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 328762
	Action Number: 299603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
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)	*Not answered.*
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 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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/03/2024
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 (continued)

Operator: San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 328762
	Action Number: 299603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	**295228**
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	**12/04/2023**
Was all the impacted materials removed from the liner	**Yes**
What was the liner inspection surface area in square feet	**42043**

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: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 01/03/2024

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CONDITIONS

Action 299603

CONDITIONS

Operator:	OGRID:
San Mateo Stebbins Water Management, LLC 5400 LBJ Freeway Dallas, TX 75240	328762
	Action Number: 299603
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	3/20/2024