ENSOLUM

November 10, 2025

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

Re: Remediation Work Plan
Tiger 14 CDP
Incident Number: nAPP2513455553
Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of San Mateo Black River Oil Pipeline, LLC (San Mateo), has prepared this *Remediation Work Plan (RWP)* to document assessment and soil sampling activities performed at the Tiger 14 CDP (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacted and waste-containing soil resulting from a crude oil release. San Mateo is submitting this *RWP*, describing analytical results from soil sampling and karst survey activities associated with Incident Number nAPP2513455553 and proposing to assess the current sensitive Site receptor (high karst potential) of the subject matter release prior to beginning excavation activities and prior to submitting a *Closure or Deferral Request*.

BACKGROUND

The Site is located in Unit P, Section 14, Township 24 South, Range 28 East, in Eddy County, New Mexico (32.21113°, -104.05092°) and is associated with oil and gas exploration and production operations on private land.

On May 14, 2025, an equipment failure resulted in the release of approximately 15 barrels (bbls) of crude oil onto the pad surface; 10 bbls of crude oil were recovered, 5 bbls of crude oil were unrecoverable. San Mateo reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on May 14, 2025, and submitted a Release Notification Form C-141 (Form C-141) on May 19, 2025. The release was assigned Incident Number nAPP2513455553.

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, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Site Assessment/Characterization is described below.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, C-04828 POD 1, located approximately 0.22 miles northeast of the Site. The well was a soil boring drilled to assess depth to groundwater beneath the Site. The soil boring was advanced to a depth of approximately 55 feet below ground surface (bgs) on June 10, 2024, and measured on June 13, 2024, to be dry. Therefore, depth to groundwater beneath the Site is estimated to be greater than 55 feet bgs. The well record and log is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 2,388 feet southeast 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 potentially underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

On June 6, 2025, Ensolum commissioned a geophysical karst survey using a New Mexico Bureau of Land Management (BLM) approved third-party cave/karst contractor. The karst survey was conducted by Southwest Geophysical Consulting, LLC, under the supervision of Dave Decker. The findings of the report indicated there was no evidence of karst features within 200 feet of the release or beneath the Site, and one anomaly consistent with a potential sub-surface air-filled void was identified southeast of the Site, within the 200-meter survey boundary. The anomaly was identified with the non-invasive electrical resistivity (ER) survey. In addition, two surficial features identified as potential karst features were within a pipeline right-of-way and appear to be related to backfill subsidence and not karst features. Lastly, the ER survey indicated potentially chaotic and unstable geology. The karst survey report is included in Appendix B.

Based on the results of the desktop Site Characterization and assuming unstable geology is present at or near the Site, the following NMOCD Table I Closure Criteria (Closure Criteria) would 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

Absent of unstable geology, there are no other sensitive receptors present in the prescribed distances set forth in 19.15.29.12 NMAC and depth to groundwater has been reasonably estimated to be between 51 feet and 100 feet bgs, indicated the middle Closure Criteria could be appropriate for the Site.

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

Beginning on May 14, 2025, Ensolum personnel were onsite to delineate the lateral and vertical extent of the release as indicated by field observations and information provided in the C-141. Four soil samples (SS01 through SS04) were collected at ground surface and 1-foot bgs to assess the lateral extent of impacted soil. Two boreholes (BH01 and BH02) were advanced via hand auger and gas-powered core drill within the release extent to assess the vertical extent of the release. Boreholes BH01 and BH02 were advanced to a depth of 4 feet bgs and 9 feet bgs, respectively.

All delineation soil samples were field screened for chloride and TPH utilizing Hach® chloride QuanTab® test strips and a PetroFLAG® Soil Analyzer System, respectively. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix C. Photographic documentation of delineation activities is included in Appendix D.

All 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 Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-

diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated:

- All COC concentrations for lateral delineation soil samples SS01 through SS04 were in compliance with the strictest Closure Criteria at the ground surface and 1-foot bgs.
- Borehole BH01 contained concentrations of TPH and/or chloride exceeding the Site Closure Criteria at the ground surface and 1-foot bgs. All COC concentrations for BH01 were in compliance with the strictest Closure Criteria at 2 feet bgs.
- Borehole BH02 contained concentrations of TPH exceeding the Site Closure Criteria at ground surface and concentrations of chloride exceeding the Site Closure Criteria from ground surface to 9 feet bgs. All COC concentrations for BH02 were in compliance with the middle Closure Criteria from the ground surface to 9 feet bgs.

Laboratory results are summarized in Table 1 and laboratory analytical reports are included in Appendix E. NMOCD correspondence can be referenced in Appendix F.

PROPOSED REMEDIATION WORK PLAN

Absent potential unstable geology, there are no sensitive receptors present in the prescribed distances set forth in 19.15.29.12 NMAC, and depth to groundwater has been reasonably estimated to be between 51 feet and 100 feet bgs. As stated in the geophysical survey, the ER survey results are interpretations until verified by subsurface methods. As such, San Mateo intends to complete excavation activities at the Site according to the following actions:

- San Mateo intends to complete soil borings to confirm the presence of potential unstable geology and subsurface karst features at the Site prior to performing excessive remediation. The soil borings will be advanced to a depth of approximately 44 feet bgs, which is the depth the off-site anomaly was observed in the ER survey. The proposed karst assessment soil borings locations are included on Figure 3

- Upon completion of the subsurface assessment, San Mateo will re-evaluate Site Closure Criteria, then complete excavation of impacted soil. The excavation will be completed with mechanical equipment, and the possible excavation extents, dependent on the confirmed presence or absence of unstable geology, are depicted on Figures 4a and 4b. Figure 4a depicts the proposed excavation extent if no sensitive Site receptors are associated with the Site and depth to groundwater is greater than 51 feet bgs. Figure 4b depicts the proposed excavation extent utilizing the strictest Closure Criteria if unstable geology is confirmed.

- The impacted area measures 1,074 square feet (sq ft) in size and an estimated 40 cubic yards of impacted soil will require excavation, assuming no sensitive receptors are associated with the Site and depth to groundwater is confirmed to be greater than 51 feet bgs, respectively. This work will include addressing TPH impacted soil identified in borehole BH01 at ground surface, see Figure 2.
- Impacted soil will be transferred to an approved landfill facility for disposal.

- Following the removal of impacted soil, Ensolum will collect 5-point composite soil samples representing no more than 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation soil samples will be collected, handled, and analyzed following the same procedures as described above. The excavation will be backfilled and recontoured to match pre-existing conditions.

- Delineation soil sample location BH02 will be advanced to vertically delineate to the strictest Closure Criteria unless all excavation confirmation floor samples already meet those standards.
- If there are areas to be deferred on pad due to the presence of equipment and/or pipelines, such as those under the lined secondary containment, lateral delineation samples will be collected to properly quantify the residual soil impacts that will be addressed during major Site reconstruction or following plugging and abandonment of the well and reclamation of the well pad.

San Mateo believes this *RWP* and will be protective of human health, the environment, and groundwater. San Mateo requests a variance to complete the proposed assessment, excavation, and soil sampling activities within 180 days of the date of approval of this *RWP* by the NMOCD.

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

Sincerely,
Ensolum, LLC

Chad Hamilton
Project Geologist

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

cc: Jason Touchet, San Mateo Black River Oil Pipeline, LLC

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Proposed Karst Assessment Locations
Figure 4a	Proposed Excavation Extent
Figure 4b	Proposed Excavation Extent
Table 1	Soil Sample Analytical Results
Appendix A	Well Log and Record
Appendix B	Karst Survey
Appendix C	Lithologic Soil Sampling Logs
Appendix D	Photographic Log
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Correspondence

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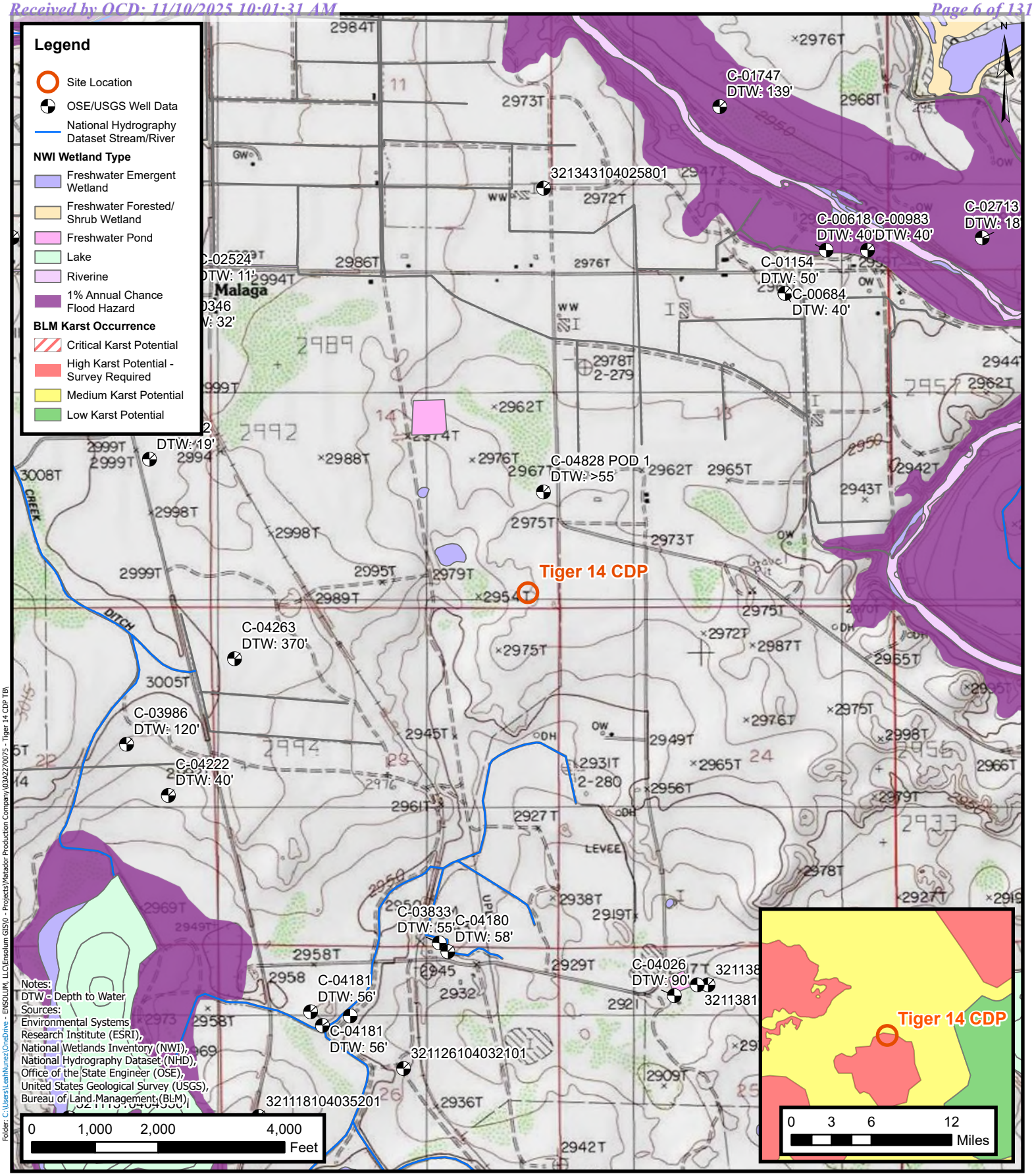
FIGURES



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Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

San Mateo Black River Oil Pipeline, LLC
Tiger 14 CDP
Incident Number: nAPP2513455553
Unit P, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE 1

Folder: C:\Users\Leah Nunez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\San Mateo Black River Oil Pipeline, LLC\03A227\0101 - Tiger 14 CDP\

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Delineation Soil Sample Locations

San Mateo Black River Oil Pipeline, LLC
Tiger 14 CDP
Incident Number: nAPP2513455553
Unit P, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE 2

Folder: C:\Users\JoshNunez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\San Mateo Black River Oil Pipeline, LLC\03A227010\1 - Tiger 14 CDP\

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Proposed Karst Assessment Locations

San Mateo Black River Oil Pipeline, LLC
Tiger 14 CDP
Incident Number: nAPP2513455553
Unit P, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE 3

Folder: C:\Users\LeahNunez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\San Mateo Black River Oil Pipeline, LLC\03A2270101 - Tiger 14 CDP\

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Proposed Excavation Extent

San Mateo Black River Oil Pipeline, LLC
Tiger 14 CDP
Incident Number: nAPP2513455553
Unit P, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE 4a

Folder: C:\Users\LeahNunez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\San Mateo Black River Oil Pipeline, LLC\03A2270101 - Tiger 14 CDP\

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Proposed Excavation Extent

San Mateo Black River Oil Pipeline, LLC
Tiger 14 CDP
Incident Number: nAPP2513455553
Unit P, Section 14, T 24S, R 28E
Eddy County, New Mexico

FIGURE 4b

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Tiger 14 CDP
San Mateo Black River Oil Pipeline, 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**	**NE**	**100**	**600**
NMOCD Table I Closure Criteria (NMAC 19.15.29) reflective of depth to groundwater greater than 55 feet bgs			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**10,000**
Delineation Soil Samples										
SS01	5/21/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	379
SS01	5/21/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	109
SS02	5/23/2025	0	<0.0250	<0.0500	<20.0	<25.0	50.4	<25.0	50.4	<20.0
SS02	5/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	59.3	<25.0	59.3	278
SS03	10/17/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	236
SS04	10/17/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	117
BH01	5/22/2025	0	<0.0250	<0.0500	<20.0	6,180	3,350	6,180	**9,530**	**986**
BH01	5/22/2025	1	<0.0250	<0.0500	<20.0	205	135	205	**340**	111
BH01	6/4/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02	5/22/2025	0	<0.0250	<0.0500	<20.0	78.2	85.7	78.2	**164**	**1,270**
BH02	5/22/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**604**
BH02	5/22/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**746**
BH02	5/22/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,400**
BH02	5/22/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**742**
BH02	5/22/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,060**
BH02	6/4/2025	7	<0.0250	<0.0500	<20.0	27.9	<50.0	27.9	<50.0	**938**
BH02	6/4/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,370**

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

"<": Laboratory Analytical result is less than reporting limit

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

*Concentrations in **red** exceed the NMOCD Table I Closure Criteria where applicable.*

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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APPENDIX A

Well Record and Log

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD 1	N/A	C-04828 POD 1

WELL OWNER NAME(S)	PHONE (OPTIONAL)
Matador Production Company	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
R347 N26th Rural Street 2nd Floor	Artesia	NM	88210

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	12	56.0	N
LONGITUDE	104	03	00.3	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE

Unit E, Section 14, Township 24S, Range 28E, Eddy County, NM

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1188	John Scarborough	John Scarborough Drilling Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
06/10/2024	06/10/2024	55'	55'	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT): N/A

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)	SLOT SIZE (inches)
0	55	5.00	Soil Boring	-	-	-	-

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
			N/A		

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	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)
0	10	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
10	20	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
20	30	10	Sand with Gravel, light brown to tan, fine to medium with some gravel	Y ✓ N	
30	40	10	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
40	50	10	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with trac	Y ✓ N	
50	55	5	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
55	55	0	Gypsum with Gravel, Clear with pink to black inclusions, fine to coarse with gra	Y ✓ N	
				Y N	
				Y N	
				Y N	
				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:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

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:

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Scott Scarborough — Digitally signed by Scott Scarborough Date: 2024.06.26 07:04:55 -06'00'

Scott Scarborough — SIGNATURE OF DRILLER / PRINT SIGNEE NAME

06/26/2024 — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

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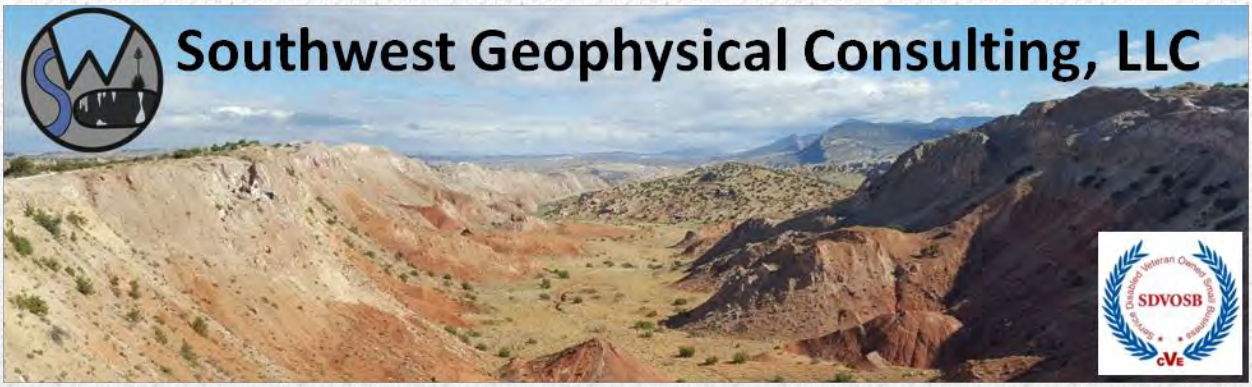
APPENDIX B

Karst Survey



Environmental Karst Study Report
Tiger 14 CDP
Eddy County, New Mexico

Prepared For:

Ensolum, LLC
3122 National Parks Highway
Carlsbad, NM 88220

Within 200 feet of the spill delineation boundary:

☐ Negative ☑ Positive for surface karst

☐ Stable ☑ Unstable Ground

☑ Karst Monitor Recommended

August 6, 2025

ENS-017-20250523

Published by:
Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
(505) 585-2550
www.swgeophys.com

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1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on May 23, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Tiger 14 CDP release site (hereinafter termed “TG14”) centered at N 32.211485° W 104.050900°.

1.1 Goals of this Study

The goals of this study are to conduct a surface karst inventory and provide the client with the location and description of any surface karst features located within 200 feet (61 meters) of the spill delineation boundary (as defined by 19.15.29.12 NMAC[1]), and to determine whether stable ground exists (as defined by 19.15.2 NMAC Definitions[2]) within 200 feet of the spill delineation boundary of the Tiger 14 CDP release as provided by the client via e-mail (**Tiger 14 CDP Release Extent.kmz**) on May 23, 2025, using electrical resistivity imaging[3].

1.2 Summary of Findings

- **No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.** Two surface karst features exist within the **200-meter** survey boundary.
- **One anomaly consistent with a subsurface air-filled void is interpreted to exist within the TG14 geophysical survey area, indicating the zone beneath the geophysical survey may be subject to collapse.**
- **Chaotic stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating unstable ground within the 200-foot survey boundary.**

1.3 Affected Environment

The TG14 project site is located in evaporite karst terrain, a landform that is characterized by underground drainage through solutionally enlarged conduits. Evaporite karst terrain may contain sinkholes, sinking streams, caves, and springs. Sinkholes leading to underground drainages and voids are common. These karst features, as well as occasional fissures and discontinuities in the bedrock, provide the primary sources for rapid recharge of the groundwater aquifers of the region. Additionally, karst may develop by hypogene processes involving dissolution by upwelling fluids from depth independent of recharge from the overlying or immediately adjacent surface. Hypogene karst systems may not be connected to the surface and can remain undiscovered unless encountered during drilling or excavation.

Karst features are delicate resources that are often of geological, hydrological, biological, and archeological importance, and should be protected. The four primary concerns in these types of terrain are environmental issues, worker safety, equipment damage, and infrastructure integrity.

The Bureau of Land Management (BLM) categorizes all areas within the Carlsbad Field Office (CFO) zone of responsibility as having either low, medium, high, or critical cave potential based on geology, occurrence of known caves, density of karst features, and potential impacts to freshwater aquifers[4]. These designations are also recognized by the New Mexico State Land Office (NMSLO). This project occurs within a **HIGH** karst occurrence zone (HKOZ)[5] (**Figure 1**).

A high karst occurrence zone is defined as an area in known soluble rock types that contains a high frequency of significant caves and karst features such as sinkholes, bedrock fractures that provide rapid recharge of karst aquifers, and springs that provide riparian habitat [4].

Due to the rapidity with which evaporite karst develops, each location within a BLM-CFO designated critical or high karst occurrence zone must be assessed on an individual basis to determine the existence of surface karst features and the possibility of sub-surface karst development each time a release occurs.

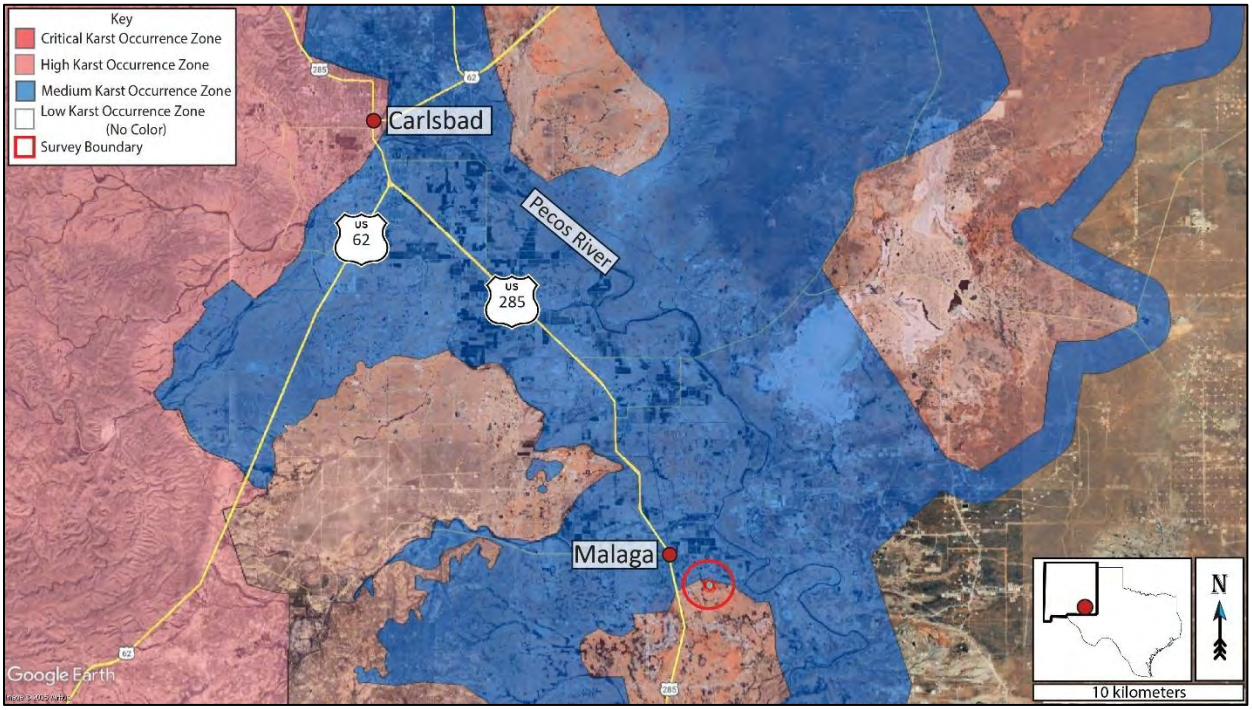

Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

1.4 Limitations of Report

This report should be read in full. No responsibility is accepted for the use of any part of this report in any other context or for any other purpose or by third parties. This report does not purport to give legal advice. Legal advice can only be given by qualified legal practitioners.

This report has been prepared for the use of Ensolum, LLC, in accordance with generally accepted consulting practices. Every effort has been made to ensure the information in this report is accurate as of the time of its writing. This report has not been prepared for use by parties other than the client, their contracting party, and their respective consulting advisors. It may not contain sufficient information for the purposes of other parties or for other uses.

This report was prepared upon completion of the associated fieldwork using a standard template prepared by Southwest Geophysical Consulting and is based on information collected prior to fieldwork, conditions encountered on site, and data collected during the fieldwork and reviewed at the time of preparation. Southwest Geophysical Consulting disclaims responsibility for any changes that might have occurred at the site after this time. The interpreted results, locations, and depths noted in this report (if applicable) should be taken as an interpretation only and no decision should be based solely on this information. Physical verification of aerial imagery analysis results should be conducted in the field prior to using this information for remediation planning. Physical verification of geophysical results using geotechnical methods should be conducted.

To the best of our knowledge, the information contained in this report is accurate at the date of issue. Due to the nature of karst terrain, the information in this report shall not be used beyond two years past the date of the field work provided in section ***2.3 Description of Survey***. Large weather events can shorten this time period as areas subject to karst development can rapidly form new features subsequent to these events.

2.0 LOCATION AND DESCRIPTION OF STUDY AREA

2.1 Description of Site

The site is located 2.5 kilometers (1.6 miles) southeast of Malaga, New Mexico, east of U.S. Highway 285 and west of the Pecos River. The release area is located within the SE ¼ section of section 14, NM T24S R28E[6] (**Figure 1** and **Figure 2**). The region has flat terrain with karstification occurring in the gypsite soils and underlying gypsum and dolomite bedrock[7] (see section ***2.2 Local Geology Summary*** for further information). The climate in this area of southeast New Mexico is semi-arid with an average annual precipitation of approximately 13 inches, of which about two-thirds falls as rain during summer thunderstorms from June to October. Summers are hot and sunny while winters are generally mild, with an average maximum temperature of 96°F in July and an average minimum temperature of 28°F in January[8]. This area is within the Chihuahuan Desert Thornscrub as defined by the Southwestern Regional ReGAP Vegetation map[9] and the vegetation consists mostly of areas of blue grama, nine-awned pappus grass, burro grass and low scrub including yucca. The spill delineation boundary is located within an HKOZ[5] (**Figure 1**) and within privately managed land[10] (**Figure 2**).

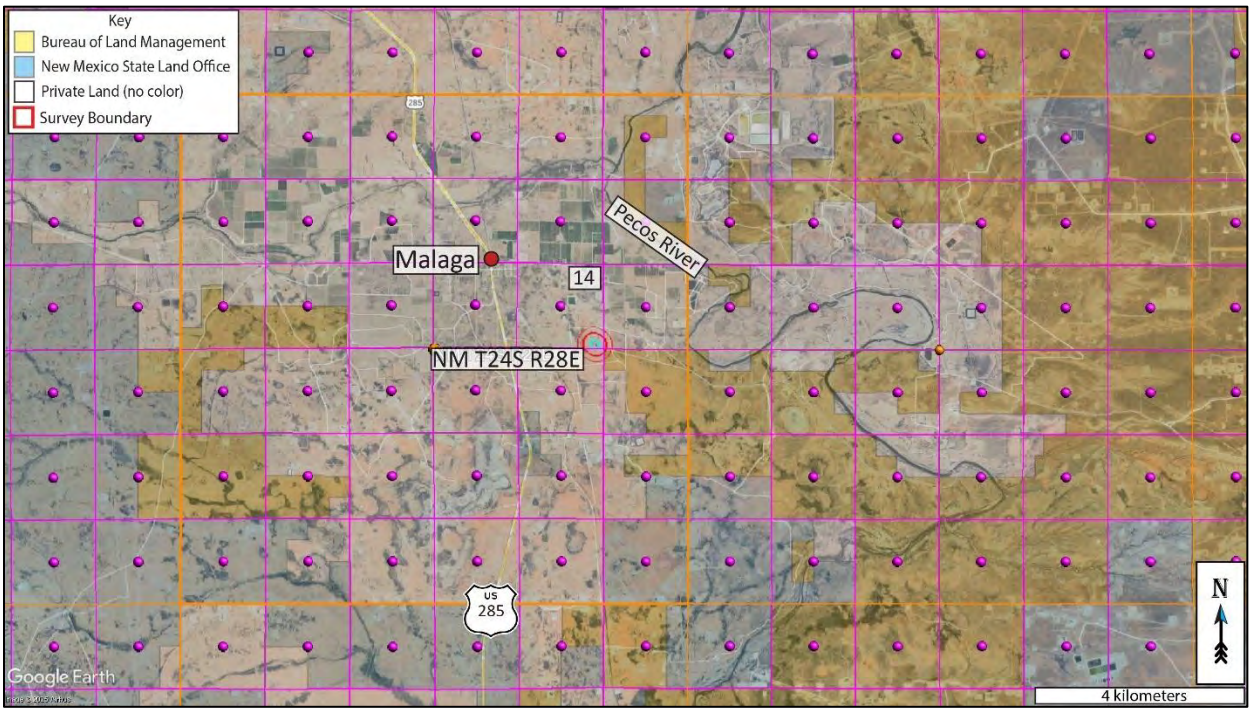

Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the TG14 survey is located at an elevation of 904 meters (2,965 feet), ± 3 meters (9.8 feet). This region is entirely underlain by the Permian Rustler Formation (Pru). The area is mantled by thin gypsiferous soils (gypsite), Quaternary alluvial piedmont (Qp), eolian deposits (Qe), and alluvium (Qal)[11] up to 5 meters in depth (**Figure 3**).

The Rustler Formation is an evaporite facies composed mainly of thin siltstones and sandstones interbedded with claystones, dolomite, and gypsum, and contains both karst-forming strata (the Forty-niner and Tamarisk members) and two shallow aquifers (the Magenta and Culebra Dolomite members)[12].

The Pru overlies the Permian Salado Formation (Psl), a layer of extremely soluble halite which can readily dissolve to create caves, sinkholes, and other karst features; however, due to its extremely soluble nature, only non-soluble silt and sand remain from the dissolution of this layer at the surface[12]. The Rustler Formation may be subject to collapse if a void has developed beneath it in the Salado Formation[13].

The survey area is covered by the easily accessible Geologic Map of New Mexico (2003) at 1:500,000 scale[14] and the Digital Geologic Map of New Mexico in ARC/INFO Format[11].

Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

2.3 Description of Survey

2.3.1 Surface Karst Survey

Southwest Geophysical Consulting, in partnership with SWCA Environmental Consultants, provides surface karst surveys using small, uncrewed aerial systems (sUAS) that are flown by qualified, FAA licensed drone pilots and that meet the stringent Bureau of Land Management – Carlsbad Field Office requirements for both pedestrian and aerial karst surveys.

The surface karst survey includes a desk study prior to the flight which allows us to provide client feedback in the event of any previously known karst features in the area. The desk study is performed out to 305 meters (1,000 feet) from the spill delineation boundary per New Mexico Oil Conservation Division guidance [1] (**Figure 4**). The study was performed using satellite and aerial imagery from Google Earth Pro dated July 13, 2024 (please note features less than one meter in diameter are generally not visible using this method); the Southwest Geophysical Cave and Karst Database dated July 5, 2025[15]; the Angel Draw, NM, 1:24,000 quad, 1985, USGS topographic map; and the latest lidar imagery from CalTopo.com. Please note that we use older topographic maps because newer maps have had caves removed from them. These searches and queries returned no results within the survey boundary.

Surface karst surveys are conducted by sUAS at low elevation within 200 meters of the spill delineation boundary[4] (**Figure 4**) following a preplanned raster pattern flightpath designed for the purpose of generating at least 75% imagery overlap. The collected high-resolution, georeferenced imagery is stitched together to develop orthomosaic imagery which is further developed into a digital elevation model (DEM); the DEM is then processed into a local relief model (LRM) (**Figure 6**). This LRM is color coded to enhance differences in elevation of as little as five centimeters. The orthoimagery, DEM, and LRM are uploaded to a server where they are analyzed by an experienced karst geologist. Finally, the data is reviewed by a senior karst geologist for quality assurance and downloaded into a table for inclusion in a written report[16].

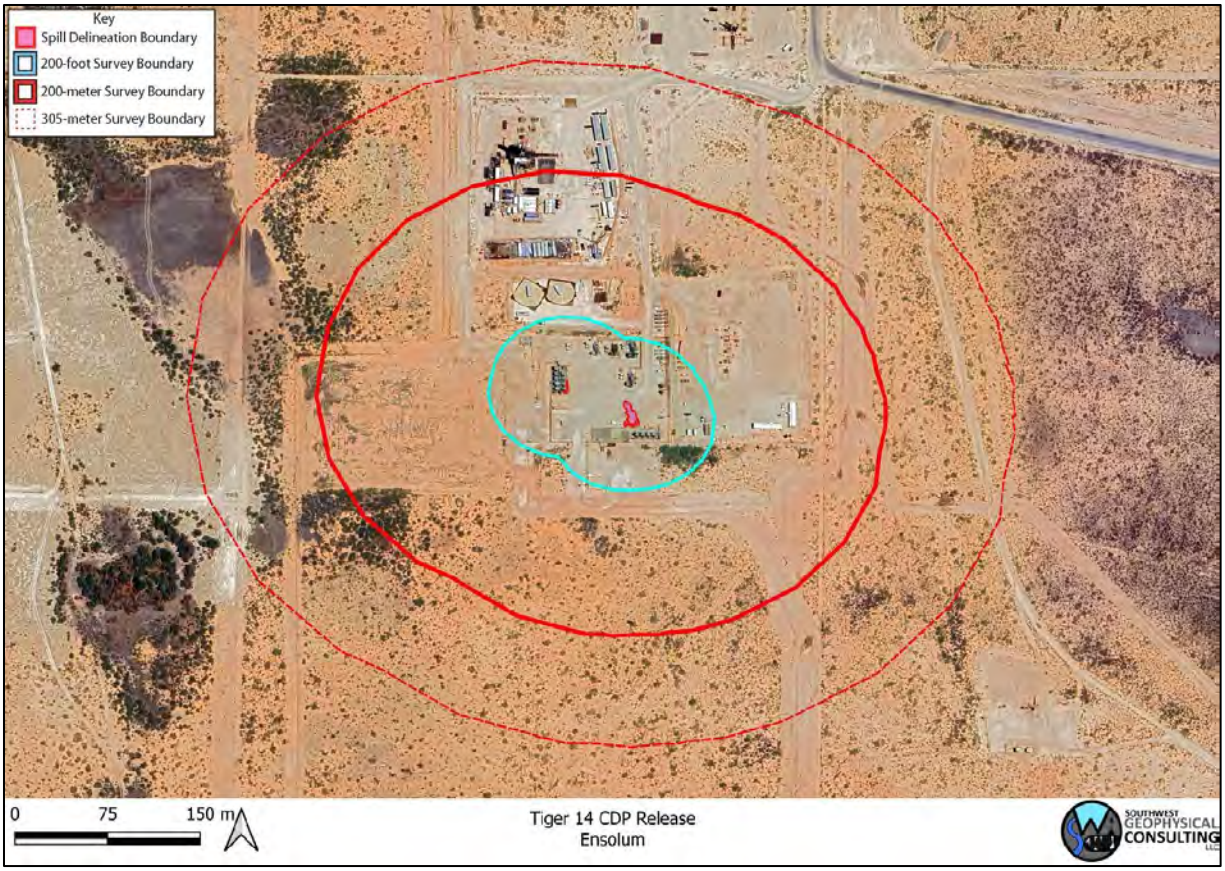

Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: July 13, 2024. Datum: WGS-84.

The resolution of the orthoimagery is clear enough that features as small as 10 centimeters can be positively identified in most circumstances. Occasionally there are ambiguous features identified during an aerial survey that will need to be checked in the field if they are impacted by the proposed remediation efforts. Specifically, it is difficult to tell the difference between solution tubes, abandoned uncased well bores, and some burrows in drone imagery. If an ambiguous feature is located during imagery analysis, it is marked with a yellow dot in **Figure 6**. If a feature of any likelihood is subsequently verified in the field prior to publication of the report, the dot will be changed to a red triangle if confirmed as a karst feature or deleted if not.

The imagery for this study was collected via aerial survey by Pat Lagodney of SWCA on June 12, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Kat Knight of Southwest Geophysical Consulting on June 14, 2025.

2.3.2 Geophysical Survey

For this survey, a Guideline Geo Terrameter LS 2 and a 28-electrode array of 40-centimeter-long electrodes were used to image the subsurface. This survey consisted of three resistivity lines in a dipole-dipole configuration laid out in north to south (TG1401), west to east (TG1402), and south to north (TG1403) arrays. These lines consisted of 28 electrodes at 5-meter spacing, resulting in three arrays of 135 meters (**Figure 5**, **Table 1**). A preconfigured protocol file was used to run the data collection (DipoleDipole2x14). This electrode configuration provided a depth of investigation of 27 meters (89 feet) and a resolution of 2.5 to 3.0 meters (8.2 to 9.8 feet) within the first 5 to 8 meters (16 to 26 feet) from the surface. A Leica GS18 GPS was used to record electrode locations and elevations.

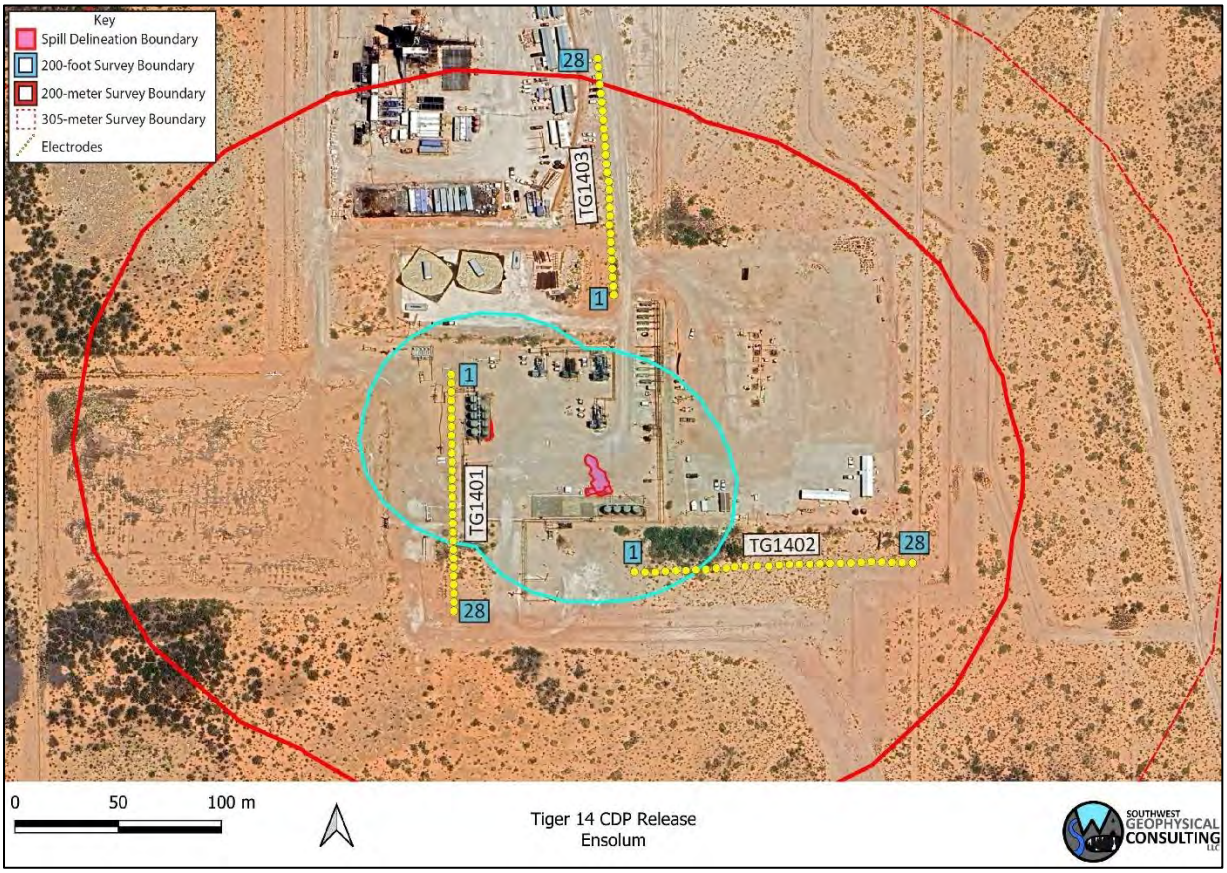

Figure 5: Geophysical survey overview. Three survey lines were conducted with 28 electrodes each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

Table 1 provides basic line data. Detailed information including electrode number, location in latitude/longitude (decimal degree format), and elevation in meters can be found in the accompanying data files.

Table 1: Survey Line Data Table. The .kmz file contains all the points for the survey line listed in the file name. These data are available in the accompanying files TG14_ERI_Points.xlsx and ENS-012-20250617_TG14_Data_Files.kmz.

File Name:	Completed By:	Date:
TG1401.kmz TG1402.kmz TG1403.kmz	Steven Kesler – Field Geologist Britt Bommer – Field Geologist Michael Jones – Field Geologist	6/23/2025

EarthImager™ 2D software was used to download and process the data and to provide the model used to make our interpretations. The design of the survey and the orientation of each of the lines provides the information necessary to make the determination of "stable" or "unstable" ground at this site.

A typical starting model was used for the data processing due to the two-layer model of the geology in the area; specifically, generally high-resistivity gypsum and dolomite at the surface and low-resistivity saturated gypsum and dolomite bedrock at depth. The starting model used was "average apparent resistivity" and a default inversion setting of "surface," with a minimum apparent resistivity set to 0.1 Ohm-meters (Ohm-m or Ω-m) and a max apparent resistivity set to 100,000 Ω-m (**Table 2**).

Table 2: Software Information and Settings

Software Name:	EarthImager™ 2D
Version:	2.4.4.649
Starting Model:	Average Apparent Resistivity
Default Inversion Settings:	Surface
Changes to Default Inversion Settings:	Max Apparent Resistivity = 100 kΩ-m Min Apparent Resistivity = 0.1 Ω-m

Note: Raw data files (.dat files for EarthImager™ 2D) and processed data (.trn files, terrain files for surface correction in EarthImager™ 2D and .out files, the processed .dat files) are available upon request.

All field work, including setup, stow, and travel, was completed by Steven Kesler, Britt Bommer, and Michael Jones on June 23, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed two medium-likelihood surface karst features located within the 200-meter (656-foor) survey boundary, but outside of the 200-foot (61-meter)[1] survey area surrounding the spill delineation boundary (**Table 3**, **Figure 6**). These features were field checked while on site for the geophysical work and confirmed to be subsidence related to the pipeline trench (**Figure 7**). Due to the location within a locally enclosed depression, and the fact that we could not see beneath the pipeline, we can't fully rule these features out as simply soil settling but must assume they are due to soil raveling into subsurface voids until proven otherwise by exposing the pipeline by excavation. The locally enclosed depression was confirmed to extend into the 200-foot survey boundary via historical imagery.

No springs exist within the 305-meter (1,000-foot)[1] survey boundary (**Figure 6**). A recognized karst feature exists just outside of the 305-meter (1,000-foot) survey boundary.

Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

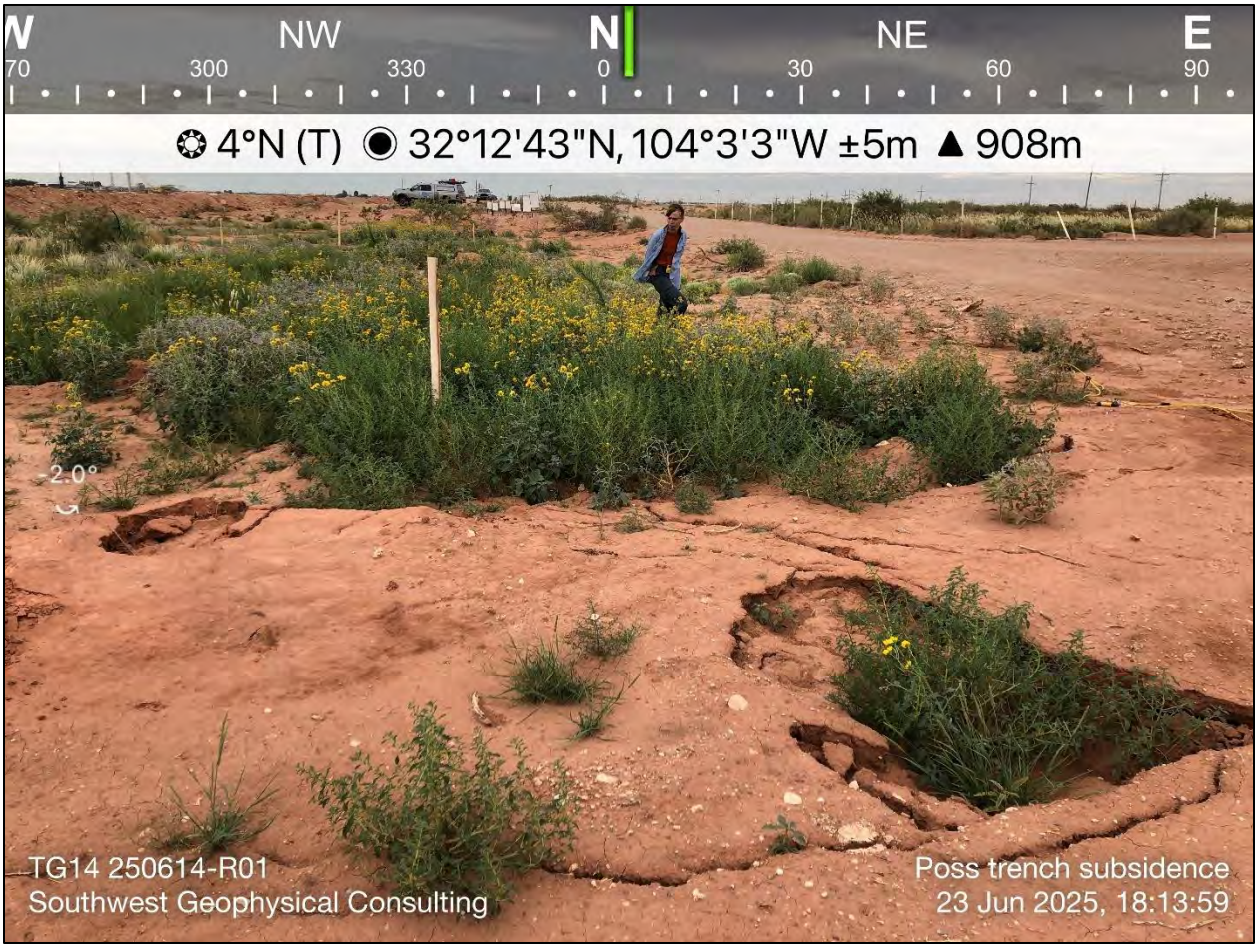

Figure 7: Feature 250614-R01. Soil subsidence within a trench.

3.2 Geophysical Survey

Electrical resistivity tomography forms images of the subsurface by causing a current to flow through the rock and soil and then measuring the resistance of these materials as the current flows through them. This measurement is taken many times and the resulting data, once processed, is used to produce a model of the subsurface (**Figure 8**). This model is produced using "non-unique" solutions, which means that there are many models and interpretations which will satisfy the data. Using experience and knowledge of the local geology, a high-confidence model can be established and used to develop an accurate understanding of what lies below the surface. This survey was conducted with the express purpose of locating subsurface voids and does not purport to find paleokarst (old, non-active karst features that have been filled in with sand and sediment) or nascent karst features below the resolution limit of the survey.

The results of this study indicate a chaotic geologic system with resistivities between 1.1 and ~200 Ohm-m (**Figure 8**). One higher-than-average subsurface anomaly (A01 at 1,182 Ohm-m)) exists along line TG1402. This anomaly is outside of the 200-foot (61-meter) survey boundary. Areas of disjoined higher zones of resistivity and areas of curved higher resistivity exist.

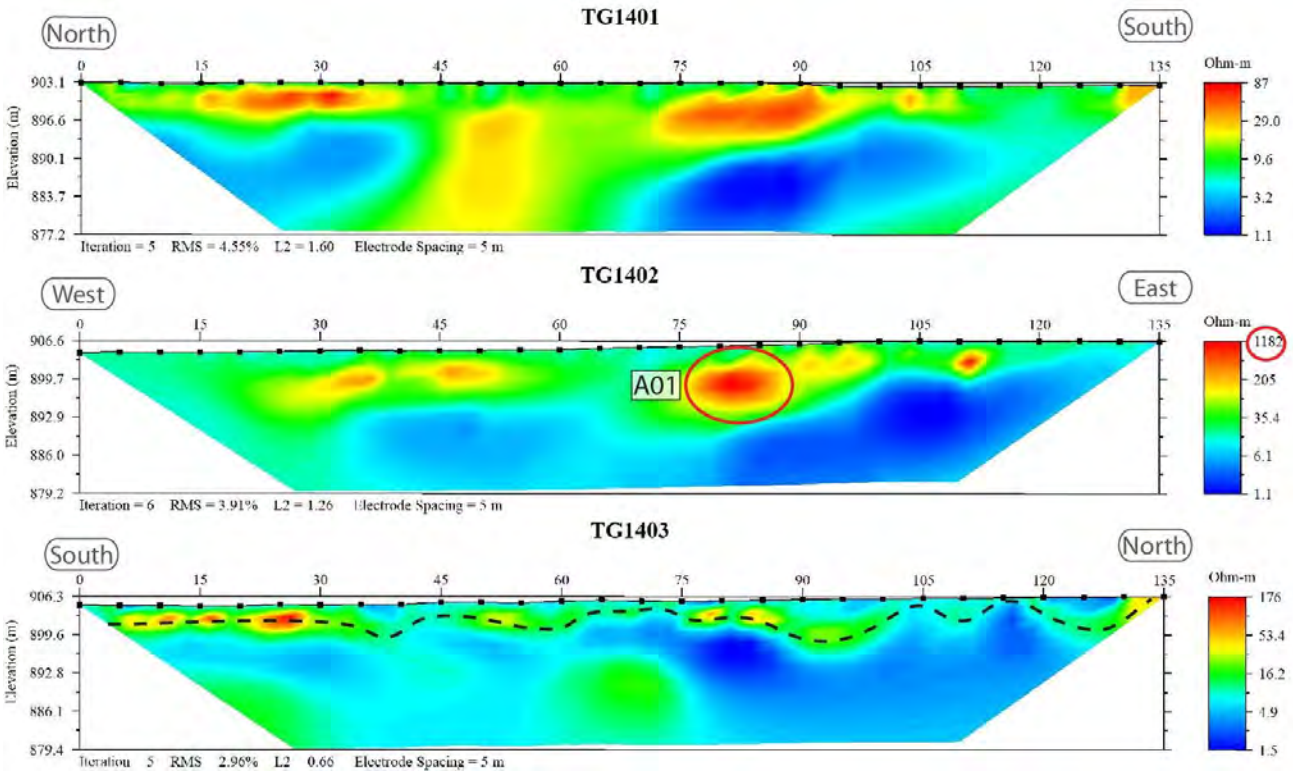

Figure 8: 2D inverted resistivity sections. Red ellipse highlights high-resistivity anomaly. Black-dashed line indicates areas of possible instability. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

Please keep in mind when viewing the 2D inverted resistivity sections that color maps can be widely different for each view. Always check the color map located on the right side of the image when viewing the 2D images to ensure you understand the range of resistivities presented. Distances along the top and depths along the left side are in meters. The color map along the right side is in Ohm-m. Due to the nature of the survey, shallower zones have higher resolution between electrodes than deeper zones; therefore, small features at depth will not be visible.

Table 3 contains a list of features identified during the surface karst survey and subsequent imagery analysis. Each feature is identified with a feature identification number (Feature ID), the type of feature, estimated size (in meters), recommended buffer (in meters), the likelihood of this feature being a surface karst feature (modifiers H/M for high or medium likelihood, V for field verified, R for resistivity anomaly), and its location in WGS-84/UTM-13 (EPSG: 32613).

Table 3: Karst Feature Data Table

KF Status	Feature ID	Type	Size (m)	Buffer (m)	Mod	Easting	Northing
PKF	250614-R01	Possible subsurface karst development	16.4	50	M	589442.576	3564345.508
PKF	250614-R02	Possible subsurface karst development	20.4	59	M	589433.893	3564373.034
RKF	**250617-D02**	**Swallet**	**2**	**50**	**V**	**589110.532**	**3564117.418**
PKF	250806-D01	Subsurface anomaly (7-8 meters depth)	5	10	R	589542.834	3564191.104

NOTE: Location data provided in WGS-84/UTM 13N. PKF – possible karst feature. RKF – recognized karst feature.

4.0 DISCUSSION

No surface karst features and no anomalies consistent with air-filled subsurface voids are found within 200 feet (61 meters) of the TG14 spill delineation boundary. Two medium-likelihood features that could not be confirmed as karst in the field (but also could not be ruled out) and one subsurface anomaly interpreted as possibly karst related exist outside of the 200-foot boundary, but within the 200-meter survey boundary. No springs exist within the 305-meter survey boundary; however one recognized karst feature (a swallet) exists just outside of the 305-meter survey boundary. Small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may also be present.

Areas of higher resistivity (reds, yellows, and greens) near the surface are interpreted as dry gypsite soils and gypsum or dolomite bedrock of the Rustler Formation[17] (**Figure 8** and **Figure 9**). These areas exhibit chaotic and disjoined characteristics indicating bedrock subsidence or collapse into possible paleokarst features. These features provide easy routes for meteoric water into the subsurface and allow for rapid dissolution of gypsum bedrock suggesting unstable ground may exist at this location. Very low-resistivity areas between 1.1 – 15 Ohm-m may either represent fluid from the brine release, surface-to-subsurface hydrologic pathways, or a layer of either clays and halite lenses or moist or saturated layers within the Rustler Formation (**Figure 8**).

Please remember that these are interpretations made from knowledge of the local subsurface materials and experience. **They remain interpretations until verified by geotechnical methods.** Employing a BLM-CFO approved karst monitor on site during any drilling and/or remediation activities is recommended.

Fracture sets within the subsurface can act as hydrologic pathways to the water table. Rapid dissolution of gypsum can occur along these pathways creating solution-enlarged fractures, and in some cases, voids within months to years. For this reason, this survey is valid only for this remediation event.

Within karst terrains like the project site, small air- or sediment-filled voids and/or brecciated zones and solutionally enlarged fractures that are below the resolution limit of the survey (2.5–3.0 meters) may exist; these may be encountered during excavation, and if so, should be evaluated by a karst specialist prior to continued work.

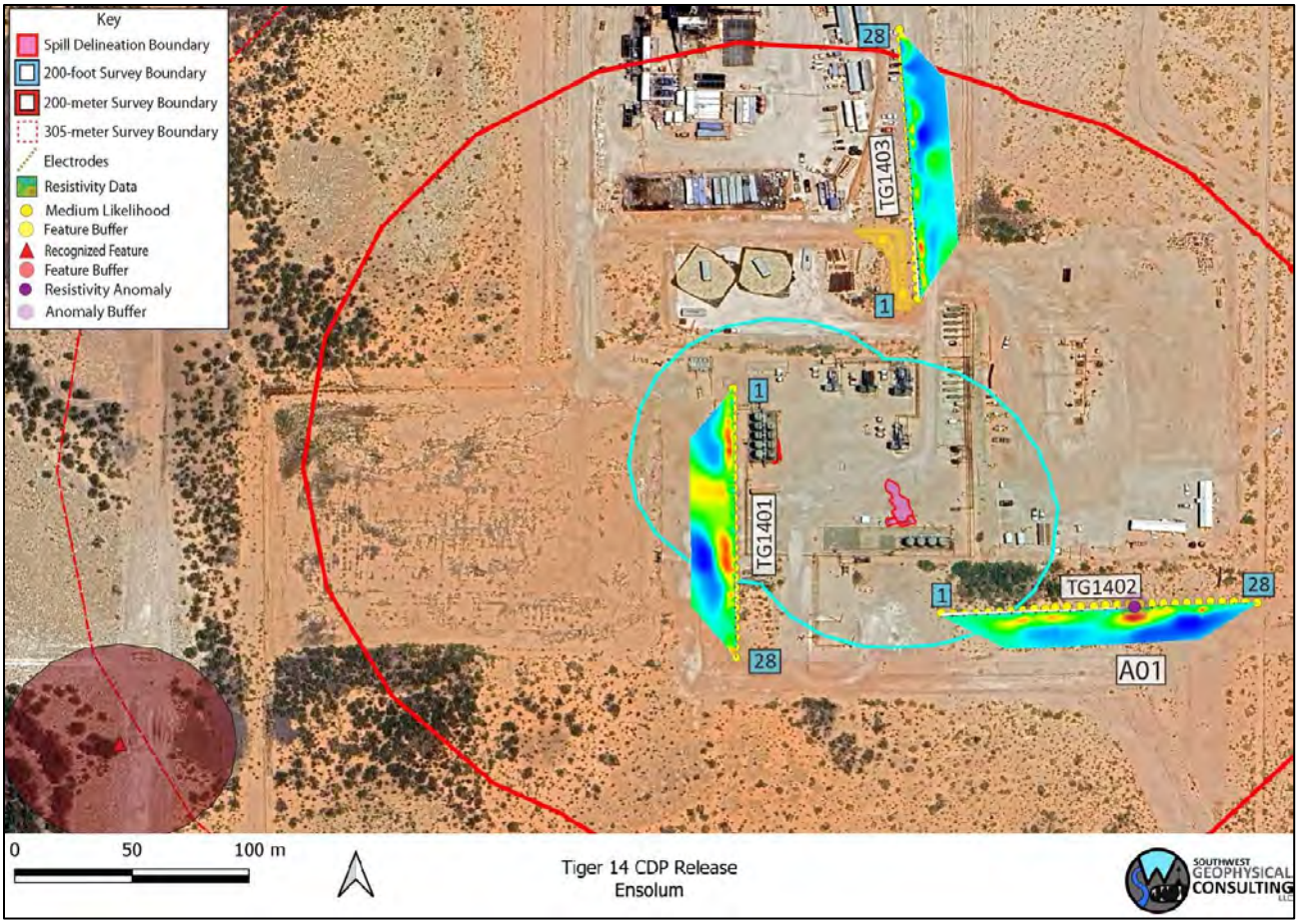

Figure 9: Data overlay. Colored trapezoids are the 2D inverted resistivity lines. Background image credit: Google Earth. Image date: July 13, 2024.

5.0 SUMMARY

- **No surface karst features exist within 200 feet (61 meters) of the spill delineation boundary.** Two surface karst features exist within the **200-meter** survey boundary.
- **One anomaly consistent with a subsurface air-filled void is interpreted to exist within the TG14 geophysical survey area, indicating the zone beneath the geophysical survey may be subject to collapse.**
- **Chaotic stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating unstable ground within the 200-foot survey boundary.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site is recommended.

6.0 DISCLOSURE STATEMENT

Karst occurrence zones are prone to rapid karst formation and warrant careful planning and engineering to mitigate karst-forming processes that could be accelerated by removal of surface cover or the vibrations associated with heavy equipment used in the remediation process.

Mitigation measures for any karst features revealed during excavation shall be approved by the Bureau of Land Management – Carlsbad Field Office and follow the Natural Resources Conservation Service Conservation Practice Standard for Karst Sinkhole Treatment, Code 527, or the Bureau of Land Management Cave and Karst Management Handbook, H-8380-1.

Vigilance during remediation activities is paramount. If voids are encountered during excavation, contact the Bureau of Land Management Karst Division at (575) 234-5972, the New Mexico State Land Office Surface Resources Division at (505) 827-5768, or a BLM-CFO approved karst contractor and request an on-site investigation from a karst expert if one is not already on site. A karst consultant can generally be available in Eddy County within five hours.

Approved karst monitors should have karst feature identification training, at least two years of supervised experience identifying karst features, wilderness first aid training, SRT training, confined space training, gas monitor training, and a minimum of SPAR cave rescue training through NCRC. They should have with them the proper gear and be prepared both physically and mentally to enter a collapse feature within minutes to perform a rescue if needed. Monitoring services with qualified karst monitors, as well as cave surveys and geophysical surveys, are available from Southwest Geophysical Consulting.

Under no circumstances should an untrained, inexperienced person enter a cave, pit, sinkhole, or collapse feature. All field employees of Southwest Geophysical Consulting have extensive caving experience and the ability to determine whether entry into a karst feature is safe or presents a hazard. In the event it is necessary to enter a karst feature, Southwest Geophysical Consulting can provide these services on request.

Cave and karst resource inventory reports, karst feature investigations, and geophysical reports (along with the associated data files) commissioned at the request of the land manager should be submitted to BLM-CFO at blm_nm_karst@blm.gov.

Cave and karst resource inventory reports for the NMSLO should be submitted to the respective project manager.

Environmental karst reports should be submitted to the appropriate project manager at the New Mexico Oil Conservation Division.

7.0 REFERENCES

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8.0 GLOSSARY OF TERMS

AGI	Advanced Geosciences Inc.
BLM-CFO	Bureau of Land Management - Carlsbad Field Office
brecciated	Fractured rock caused by faulting or collapse.
caprock-collapse sinkhole	Collapse of roof-spanning rock into a cave or void.
cave	Natural opening at the surface large enough for a person to enter.
cover-collapse sinkhole	Collapse of roof-spanning soil or clay ground cover into a subsurface void.
ERI	Electrical Resistivity Imaging
GPS	Global Positioning System
grike	A solutionally enlarged, vertical, or sub-vertical joint or fracture.
(H)	High confidence modifier for a PKF. This is typically reserved for a feature that is definitely karst but has not been confirmed in the field.
HKOZ	High Karst Occurrence Zone
karst	A landscape containing solutional features such as caves, sinkholes, swallets, and springs.
(L)	Low confidence modifier for a PKF. This is typically a feature that cannot be ruled out as karst but is most likely NOT karst related. This modifier may also be used for pseudokarst features.
(M)	Medium confidence modifier for PKF. This is an ambiguous feature that can't be positively identified as karst without a field visit (e.g., burrows, abandoned unlined wells, solution tubes, pseudokarst).
MKOZ	Medium Karst Occurrence Zone
NCRC	National Cave Rescue Commission
NKF	Non-karst feature. Used for features originally identified as PKF that have been subsequently identified in the field as non-karst related. This term may also be used for pseudokarst features.
NMSLO	New Mexico State Land Office
Ohm-m	Ohm-meter, a unit of measurement for resistivity. Sometimes abbreviated Ω-m.
paleokarst	Previously formed karst features that have been filled in by erosion and/or deposition of minerals.
Pat	Permian Artesia Group
Pc	Permian Capitan Formation
Pcs	Permian Castile Formation
Pdl	Permian Dewey Lake Formation
PKF	Possible karst feature. This term is reserved for features identified in satellite or aerial imagery that have NOT been visited in the field. Further modifiers include (H) for high confidence, (M) for medium confidence, and (L) for low confidence. These confidence levels are based on field experience.
PLSS	Public Land Survey System
Pqg	Permian Queen/Greyburg Formation
Pru	Permian Rustler Formation

pseudokarst	Karst-like features (sinkholes, conduits, voids etc.) that are not formed by dissolution. These types of features include soil piping, lava tubes, and some cover-collapse and suffosion sinkholes.
Psl	Permian Salado Formation
Psr	Permian Seven Rivers Formation
Pt	Permian Tansill Formation
Py	Permian Yates Formation
Qal	Quaternary alluvium
Qe	Quaternary eolian deposits
Qp	Quaternary piedmont deposits
Qpl	Quaternary playa lake deposits
RKF	Recognized karst feature. This term is reserved for karst features that have been physically verified in the field.
SPAR	Small Party Assisted Rescue
sUAS	Small, uncrewed aerial system
suffosion sinkhole	Raveling of soil into a pre-existing void or fracture.
swallet	A natural opening in the surface, too small for a person, that drains water to an aquifer. Some are "open," meaning a void can be seen below; some are "closed, "meaning they are full of sediment.
SWG	Southwest Geophysical Consulting, LLC
UTM	Universal Transverse Mercator (projected coordinates)
(V)	Field verified modifier for a RKF. This indicates that the feature has been visited by a qualified karst professional in the field and fully identified
WGS	World Geodetic System (geographic coordinates)

9.0 ATTESTATION

David D. Decker, PhD, PG, CPG
Chief Executive Officer, Principal Geologist
Southwest Geophysical Consulting, LLC
5117 Fairfax Dr. NW
Albuquerque, NM 87114
dave@swgeophys.com
(505) 585-2550

CERTIFICATE OF AUTHOR

I, David D. Decker, a Licensed Professional Geologist and a Certified Professional Geologist, do certify that:

- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in Monterey, California, in 2003, and a Doctor of Philosophy in Earth and Planetary Sciences from the University of New Mexico, Albuquerque, New Mexico, in 2018.
- I am a Licensed Professional Geologist in the State of Texas, USA (PG-15242) and have been since 2021. I am a Certified Professional Geologist through the American Institute of Professional Geologists (CPG-12123) and have been since 2021.
- I have been employed as a geologist continuously since 2016. I was previously employed as a Fire Controlman, Naval Flight Officer, and Aerospace Engineering Duty Officer in the U.S. Navy and operated, maintained, and installed various sensor systems including magnetic, electromagnetic, radar, communications, and acoustic systems in various capacities from 1986 through 2010.
- I have been involved in various aspects of cave and karst studies continuously since 1985, including exploration, mapping, and scientific studies.
- I have read the definition of “qualified karst professional” set out in the ASTM Standard Practice for Preliminary Karst Terrain Assessment for Site Development (ASTM E-1527). I meet the definition of “qualified professional” for the purposes of this standard.
- I am responsible for the content, compilation, and editing of all sections of report number ENS-017-20250523 entitled, “Environmental Karst Study Report, Tiger 14 CDP, Eddy County, New Mexico.” I or a duly authorized and qualified representative of Southwest Geophysical Consulting, LLC, have personally visited this site and/or reviewed the aerial imagery on the date or dates mentioned in section ***2.3 Description of Survey***.

- I have no prior involvement nor monetary interest in the described property or project, save for my fee for conducting this investigation and providing the report.

Dated in Albuquerque, New Mexico, August 6, 2025.

David D. Decker

PhD, CPG-12123

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: BH01	Date: 6/4/2025
	Site Name: Tiger 14 CDP	
	Incident Number: nAPP2513455553	
	Job Number: 03A2270101	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Jenna Hinkle	Method: Auger/Core Drill
Coordinates: 32.211165, -104.050873	Hole Diameter2"	Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 20% correction factor is included.

Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			Y	BH01		0		Pad Caliche - White to very light brown, fine to coarse with small to large gravel, Moist, Non-Plastic, Noncohesive, Well graded
D	190		N	BH01	1	1		
D	<168	8	N	BH01	2	2	CCHE	Caliche - White to very light brown, Moderately consolidated, Fine to medium grained, Carbonate and sand grains in carbonate matrix, Massive, Well graded
D	<168		N	BH01	3	3		
D	<168		N	BH01	4	4		

Total Depth @ 4 feet bgs.

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Sample Name: BH02	Date: 6/4/2025	
Site Name: Tiger 14 CDP		
Incident Number: nAPP2513455553		
Job Number: 03A2270101		
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Jenna Hinkle	Method: Auger/Core Drill
Coordinates: 32.211272, -104.050948	Hole Diameter: 2"	Total Depth: 9'

Comments: Field screening conducted with HACH Chloride Test Strips and Petroflag® for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 20% correction factor is included.

Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	1114		Y	BH02	0	0	CCHE	Pad Caliche - White to very light brown, fine to coarse with small to large gravel, Moist, Non-Plastic, Noncohesive, Well graded
D	482	98	N	BH02	1	1	SW-SC	Sand with clay w/ trace gypsum - Medium to light brown, Very fine to coarse grained, Moist, Low Plasticity, Cohesive, Well graded
D	722		N	BH02	2	2		
D	1299		N	BH02	3	3	SW-SM	Sand with Silt w/ trace Gypsum - Light brown to white, Very fine to coarse grained, Moist, Non-plastic, Noncohesive, Well graded
D	868		N	BH02	4	4		
D	1204		N	BH02	5	5		
D	795			BH02	5.5			
D	722		N	BH02	6	6	CH	Fat Clay w/ trace Gypsum - Red to medium brown, Very fine grained, moist, Medium plasticity, Cohesive, Massive, Poorly graded
D	431		N	BH02	7	7		
D	593		N	BH02	8	8		
D	336	63	N	BH02	9	9		

Total Depth @ 9 feet bgs.

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APPENDIX D

Photographic Log

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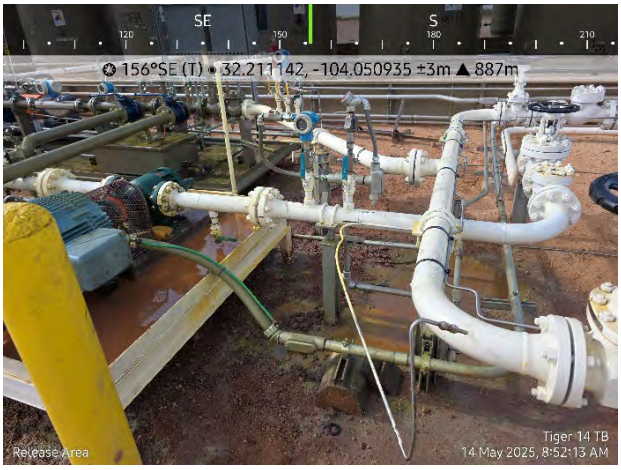
Photographic Log
San Mateo Black River Oil Pipeline, LLC
Tiger 14 CDP
nAPP2513455553

Photograph 1 Date: 5/14/2025
Description: Lease Sign
View: South

Photograph 2 Date: 5/14/2025
Description: Release Area
View: West



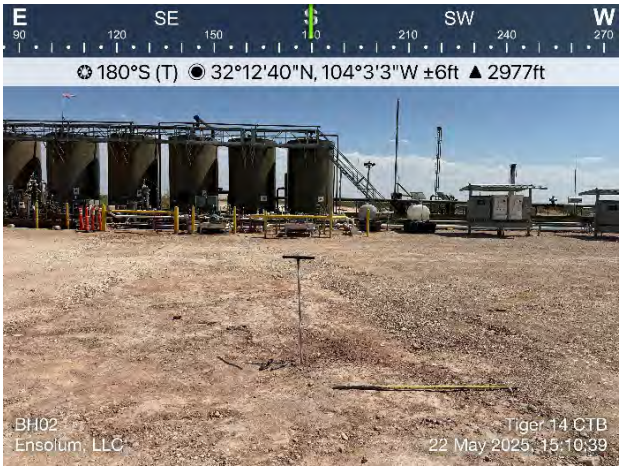
Photograph 3 Date: 5/14/2025
Description: Release Area
View: Southeast

Photograph 4 Date: 5/14/2025
Description: Release Area
View: West

ENSOLUM

Photographic Log
San Mateo Black River Oil Pipeline, LLC
Tiger 14 CDP
nAPP2513455553

Photograph 5 Date: 5/22/2025
Description: Delineation (BH01)
View: South



Photograph 6 Date: 5/22/2025
Description: Delineation (BH02)
View: South

Photograph 7 Date: 6/4/2025
Description: Delineation (BH01)
View: East

Photograph 8 Date: 6/4/2025
Description: Delineation (BH02)
View: Northeast

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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: Tiger 14 CDP

Work Order: E505262

Job Number: 23003-0002

Received: 5/23/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/30/25

Date Reported: 5/30/25

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

Project Name: Tiger 14 CDP
Workorder: E505262
Date Received: 5/23/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2025 7:30:00AM, under the Project Name: Tiger 14 CDP.

The analytical test results summarized in this report with the Project Name: Tiger 14 CDP 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
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Table of Contents

Sample Summary

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/30/25 11:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E505262-01A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.
SS01-1'	E505262-02A	Soil	05/21/25	05/23/25	Glass Jar, 2 oz.

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2025 11:18:25AM

SS01-0'

E505262-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2521128
Benzene	ND	0.0250	1	05/23/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/24/25	
Toluene	ND	0.0250	1	05/23/25	05/24/25	
o-Xylene	ND	0.0250	1	05/23/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/24/25	
Surrogate: Bromofluorobenzene		*99.2 %*	*70-130*	*05/23/25*	*05/24/25*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*05/23/25*	*05/24/25*	
Surrogate: Toluene-d8		*99.5 %*	*70-130*	*05/23/25*	*05/24/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2521128
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/24/25	
Surrogate: Bromofluorobenzene		*99.2 %*	*70-130*	*05/23/25*	*05/24/25*	
Surrogate: 1,2-Dichloroethane-d4		*93.6 %*	*70-130*	*05/23/25*	*05/24/25*	
Surrogate: Toluene-d8		*99.5 %*	*70-130*	*05/23/25*	*05/24/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522007
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/27/25	
Surrogate: n-Nonane		*110 %*	*61-141*	*05/27/25*	*05/27/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2522015
Chloride	**379**	40.0	2	05/27/25	05/27/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2025 11:18:25AM

SS01-1'

E505262-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: SL			Batch: 2521128
Benzene	ND	0.0250	1	05/23/25	05/24/25	
Ethylbenzene	ND	0.0250	1	05/23/25	05/24/25	
Toluene	ND	0.0250	1	05/23/25	05/24/25	
o-Xylene	ND	0.0250	1	05/23/25	05/24/25	
p,m-Xylene	ND	0.0500	1	05/23/25	05/24/25	
Total Xylenes	ND	0.0250	1	05/23/25	05/24/25	
Surrogate: Bromofluorobenzene		*98.2 %*	*70-130*	*05/23/25*	*05/24/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*05/23/25*	*05/24/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*05/23/25*	*05/24/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2521128
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/23/25	05/24/25	
Surrogate: Bromofluorobenzene		*98.2 %*	*70-130*	*05/23/25*	*05/24/25*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*05/23/25*	*05/24/25*	
Surrogate: Toluene-d8		*101 %*	*70-130*	*05/23/25*	*05/24/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522007
Diesel Range Organics (C10-C28)	ND	25.0	1	05/27/25	05/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/27/25	05/27/25	
Surrogate: n-Nonane		*111 %*	*61-141*	*05/27/25*	*05/27/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2522015
Chloride	**109**	20.0	1	05/27/25	05/27/25	

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2025 11:18:25AM

Volatile Organic Compounds by EPA 8260B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2521128-BLK1)									Prepared: 05/23/25 Analyzed: 05/29/25
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	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.502*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.494*		*0.500*		*98.8*	*70-130*			
LCS (2521128-BS1)									Prepared: 05/23/25 Analyzed: 05/29/25
Benzene	2.52	0.0250	2.50		101	70-130			
Ethylbenzene	2.48	0.0250	2.50		99.1	70-130			
Toluene	2.38	0.0250	2.50		95.3	70-130			
o-Xylene	2.25	0.0250	2.50		89.9	70-130			
p,m-Xylene	4.56	0.0500	5.00		91.1	70-130			
Total Xylenes	6.81	0.0250	7.50		90.7	70-130			
Surrogate: Bromofluorobenzene	*0.487*		*0.500*		*97.3*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: Toluene-d8	*0.499*		*0.500*		*99.7*	*70-130*			
Matrix Spike (2521128-MS1)				**Source: E505259-25**					Prepared: 05/23/25 Analyzed: 05/29/25
Benzene	2.49	0.0250	2.50	ND	99.7	48-131			
Ethylbenzene	2.54	0.0250	2.50	ND	101	45-135			
Toluene	2.43	0.0250	2.50	ND	97.3	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.80	0.0500	5.00	ND	96.0	43-135			
Total Xylenes	7.19	0.0250	7.50	ND	95.8	43-135			
Surrogate: Bromofluorobenzene	*0.502*		*0.500*		*100*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.498*		*0.500*		*99.5*	*70-130*			
Surrogate: Toluene-d8	*0.505*		*0.500*		*101*	*70-130*			
Matrix Spike Dup (2521128-MSD1)				**Source: E505259-25**					Prepared: 05/23/25 Analyzed: 05/29/25
Benzene	2.50	0.0250	2.50	ND	100	48-131	0.440	23	
Ethylbenzene	2.54	0.0250	2.50	ND	101	45-135	0.0197	27	
Toluene	2.45	0.0250	2.50	ND	98.0	48-130	0.696	24	
o-Xylene	2.46	0.0250	2.50	ND	98.3	43-135	2.91	27	
p,m-Xylene	4.95	0.0500	5.00	ND	98.9	43-135	3.00	27	
Total Xylenes	7.40	0.0250	7.50	ND	98.7	43-135	2.97	27	
Surrogate: Bromofluorobenzene	*0.512*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.505*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.496*		*0.500*		*99.1*	*70-130*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2025 11:18:25AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2521128-BLK1)									Prepared: 05/23/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.493*		*0.500*		*98.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.502*		*0.500*		*100*	*70-130*			
Surrogate: Toluene-d8	*0.494*		*0.500*		*98.8*	*70-130*			
LCS (2521128-BS2)									Prepared: 05/23/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0		91.6	70-130			
Surrogate: Bromofluorobenzene	*0.500*		*0.500*		*99.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.508*		*0.500*		*102*	*70-130*			
Matrix Spike (2521128-MS2)				**Source: E505259-25**					Prepared: 05/23/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	50.7	20.0	50.0	ND	101	70-130			
Surrogate: Bromofluorobenzene	*0.497*		*0.500*		*99.4*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.503*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.516*		*0.500*		*103*	*70-130*			
Matrix Spike Dup (2521128-MSD2)				**Source: E505259-25**					Prepared: 05/23/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	7.80	20	
Surrogate: Bromofluorobenzene	*0.510*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.512*		*0.500*		*102*	*70-130*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2025 11:18:25AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522007-BLK1)									Prepared: 05/27/25 Analyzed: 05/27/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*56.5*		*50.0*		*113*	*61-141*			
LCS (2522007-BS1)									Prepared: 05/27/25 Analyzed: 05/27/25
Diesel Range Organics (C10-C28)	286	25.0	250		114	66-144			
Surrogate: n-Nonane	*55.2*		*50.0*		*110*	*61-141*			
Matrix Spike (2522007-MS1)				**Source: E505259-22**					Prepared: 05/27/25 Analyzed: 05/27/25
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	56-156			
Surrogate: n-Nonane	*55.6*		*50.0*		*111*	*61-141*			
Matrix Spike Dup (2522007-MSD1)				**Source: E505259-22**					Prepared: 05/27/25 Analyzed: 05/27/25
Diesel Range Organics (C10-C28)	291	25.0	250	ND	116	56-156	2.11	20	
Surrogate: n-Nonane	*55.0*		*50.0*		*110*	*61-141*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/30/2025 11:18:25AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522015-BLK1)									Prepared: 05/27/25 Analyzed: 05/27/25
Chloride	ND	20.0							
LCS (2522015-BS1)									Prepared: 05/27/25 Analyzed: 05/27/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2522015-MS1)				**Source: E505260-05**					Prepared: 05/27/25 Analyzed: 05/27/25
Chloride	419	20.0	250	112	123	80-120			M2
Matrix Spike Dup (2522015-MSD1)				**Source: E505260-05**					Prepared: 05/27/25 Analyzed: 05/27/25
Chloride	449	20.0	250	112	134	80-120	6.75	20	M2

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:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/30/25 11:18

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
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.

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: San Mateo	Company: Ensolum LLC	Lab WO# E505262	1D 2D 3D Std	NM CO UT TX
Project:Tiger 14 CDP	Address: 3122 National Parks Hwy	Job Number 23C3.0002	X	X
Project Manager: Ashley Giovengo	City, State, Zip: Carlsbad NM, 88220			
Address: 3122 National Parks Hwy	Phone: 575-988-0055			
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com			
Phone: 575-988-0055	Miscellaneous:			
Email: agiovengo@ensolum.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
13:25	5/21/2025	S	1	SS01-0'		1						X						3.5
13:36	5/21/2025	S	1	SS01-1'		2						X						4.0

Analysis and Method

EPA Program

SDWA	CWA	RCRA

Compliance Y or N

PWSID #

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, igonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: ~~Chad Hamilton~~ AK

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/22/25	7:11	Michelle Gonzales	5.22.25	0711
Michelle Gonzales	5-22-25	1530		5-22-25	1530
	5-22-25	2145	Caitlin Mair	5.23.25	730

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.

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C

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 14 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: 5/23/2025 8:48:20AM

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:	San Mateo Stebbins Water Management, LLC	Date Received:	05/23/25 07:30	Work Order ID:	E505262
Phone:	(972) 371-5200	Date Logged In:	05/22/25 15:37	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/30/25 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	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? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

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

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: Tiger 14 CDP

Work Order: E505278

Job Number: 23003-0002

Received: 5/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/2/25

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: 6/2/25

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

Project Name: Tiger 14 CDP
Workorder: E505278
Date Received: 5/27/2025 7:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/27/2025 7:15:00AM, under the Project Name: Tiger 14 CDP.

The analytical test results summarized in this report with the Project Name: Tiger 14 CDP 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

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ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/02/25 11:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 0'	E505278-01A	Soil	05/22/25	05/27/25	Glass Jar, 2 oz.
BH01 - 1'	E505278-02A	Soil	05/22/25	05/27/25	Glass Jar, 2 oz.
BH02 - 0'	E505278-03A	Soil	05/22/25	05/27/25	Glass Jar, 2 oz.
BH02 - 1'	E505278-04A	Soil	05/22/25	05/27/25	Glass Jar, 2 oz.
BH02 - 2'	E505278-05A	Soil	05/22/25	05/27/25	Glass Jar, 2 oz.
BH02 - 3'	E505278-06A	Soil	05/22/25	05/27/25	Glass Jar, 2 oz.
BH02 - 4'	E505278-07A	Soil	05/22/25	05/27/25	Glass Jar, 2 oz.
BH02 - 5'	E505278-08A	Soil	05/22/25	05/27/25	Glass Jar, 2 oz.

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

BH01 - 0'

E505278-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Benzene	ND	0.0250	1	05/28/25	05/29/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/29/25	
Toluene	ND	0.0250	1	05/28/25	05/29/25	
o-Xylene	ND	0.0250	1	05/28/25	05/29/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/29/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/29/25	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*105 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522055
Diesel Range Organics (C10-C28)	**6180**	25.0	1	05/28/25	05/29/25	
Oil Range Organics (C28-C36)	**3350**	50.0	1	05/28/25	05/29/25	
Surrogate: n-Nonane		*100 %*	*61-141*	*05/28/25*	*05/29/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2522054
Chloride	**986**	40.0	2	05/28/25	05/28/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

BH01 - 1'

E505278-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Benzene	ND	0.0250	1	05/28/25	05/29/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/29/25	
Toluene	ND	0.0250	1	05/28/25	05/29/25	
o-Xylene	ND	0.0250	1	05/28/25	05/29/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/29/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/29/25	
Surrogate: 4-Bromochlorobenzene-PID		*118 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*106 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522055
Diesel Range Organics (C10-C28)	**205**	25.0	1	05/28/25	05/29/25	
Oil Range Organics (C28-C36)	**135**	50.0	1	05/28/25	05/29/25	
Surrogate: n-Nonane		*103 %*	*61-141*	*05/28/25*	*05/29/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2522054
Chloride	**111**	20.0	1	05/28/25	05/28/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

BH02 - 0'

E505278-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Benzene	ND	0.0250	1	05/28/25	05/29/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/29/25	
Toluene	ND	0.0250	1	05/28/25	05/29/25	
o-Xylene	ND	0.0250	1	05/28/25	05/29/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/29/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/29/25	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*108 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522055
Diesel Range Organics (C10-C28)	**78.2**	25.0	1	05/28/25	05/29/25	
Oil Range Organics (C28-C36)	**85.7**	50.0	1	05/28/25	05/29/25	
Surrogate: n-Nonane		*105 %*	*61-141*	*05/28/25*	*05/29/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2522054
Chloride	**1270**	200	10	05/28/25	05/28/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

BH02 - 1'

E505278-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Benzene	ND	0.0250	1	05/28/25	05/29/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/29/25	
Toluene	ND	0.0250	1	05/28/25	05/29/25	
o-Xylene	ND	0.0250	1	05/28/25	05/29/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/29/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/29/25	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*109 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522055
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/25	05/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/25	05/29/25	
Surrogate: n-Nonane		*106 %*	*61-141*	*05/28/25*	*05/29/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2522054
Chloride	**604**	200	10	05/28/25	05/28/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

BH02 - 2'

E505278-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Benzene	ND	0.0250	1	05/28/25	05/29/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/29/25	
Toluene	ND	0.0250	1	05/28/25	05/29/25	
o-Xylene	ND	0.0250	1	05/28/25	05/29/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/29/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/29/25	
Surrogate: 4-Bromochlorobenzene-PID		*98.0 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*110 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522055
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/25	05/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/25	05/29/25	
Surrogate: n-Nonane		*105 %*	*61-141*	*05/28/25*	*05/29/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2522054
Chloride	**746**	200	10	05/28/25	05/28/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

BH02 - 3'

E505278-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Benzene	ND	0.0250	1	05/28/25	05/29/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/29/25	
Toluene	ND	0.0250	1	05/28/25	05/29/25	
o-Xylene	ND	0.0250	1	05/28/25	05/29/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/29/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/29/25	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*105 %*	*70-130*	*05/28/25*	*05/29/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522055
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/25	05/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/25	05/29/25	
Surrogate: n-Nonane		*104 %*	*61-141*	*05/28/25*	*05/29/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2522054
Chloride	**1400**	40.0	2	05/28/25	05/28/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

BH02 - 4'

E505278-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Benzene	ND	0.0250	1	05/28/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/30/25	
Toluene	ND	0.0250	1	05/28/25	05/30/25	
o-Xylene	ND	0.0250	1	05/28/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/30/25	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*05/28/25*	*05/30/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*111 %*	*70-130*	*05/28/25*	*05/30/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522055
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/25	05/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/25	05/29/25	
Surrogate: n-Nonane		*106 %*	*61-141*	*05/28/25*	*05/29/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2522054
Chloride	**742**	100	5	05/28/25	05/28/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

BH02 - 5'

E505278-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Benzene	ND	0.0250	1	05/28/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/30/25	
Toluene	ND	0.0250	1	05/28/25	05/30/25	
o-Xylene	ND	0.0250	1	05/28/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/30/25	
Surrogate: 4-Bromochlorobenzene-PID		*96.1 %*	*70-130*	*05/28/25*	*05/30/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2522038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*111 %*	*70-130*	*05/28/25*	*05/30/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2522055
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/25	05/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/25	05/29/25	
Surrogate: n-Nonane		*107 %*	*61-141*	*05/28/25*	*05/29/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2522054
Chloride	**1060**	200	10	05/28/25	05/29/25	

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522038-BLK1)									Prepared: 05/28/25 Analyzed: 05/29/25
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: 4-Bromochlorobenzene-PID	*8.12*		*8.00*		*101*	*70-130*			
LCS (2522038-BS1)									Prepared: 05/28/25 Analyzed: 05/29/25
Benzene	4.87	0.0250	5.00		97.3	70-130			
Ethylbenzene	4.85	0.0250	5.00		97.1	70-130			
Toluene	4.86	0.0250	5.00		97.2	70-130			
o-Xylene	4.87	0.0250	5.00		97.3	70-130			
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130			
Total Xylenes	14.7	0.0250	15.0		98.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.32*		*8.00*		*104*	*70-130*			
Matrix Spike (2522038-MS1)				**Source: E505278-06**					Prepared: 05/28/25 Analyzed: 05/29/25
Benzene	5.30	0.0250	5.00	ND	106	70-130			
Ethylbenzene	5.28	0.0250	5.00	ND	106	70-130			
Toluene	5.30	0.0250	5.00	ND	106	70-130			
o-Xylene	5.28	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130			
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.20*		*8.00*		*103*	*70-130*			
Matrix Spike Dup (2522038-MSD1)				**Source: E505278-06**					Prepared: 05/28/25 Analyzed: 05/29/25
Benzene	6.06	0.0250	5.00	ND	121	70-130	13.3	27	
Ethylbenzene	6.05	0.0250	5.00	ND	121	70-130	13.6	26	
Toluene	6.06	0.0250	5.00	ND	121	70-130	13.4	20	
o-Xylene	6.02	0.0250	5.00	ND	120	70-130	13.0	25	
p,m-Xylene	12.2	0.0500	10.0	ND	122	70-130	13.2	23	
Total Xylenes	18.2	0.0250	15.0	ND	122	70-130	13.1	26	
Surrogate: 4-Bromochlorobenzene-PID	*8.20*		*8.00*		*103*	*70-130*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522038-BLK1)									Prepared: 05/28/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.37*		*8.00*		*105*	*70-130*			
LCS (2522038-BS2)									Prepared: 05/28/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0		90.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.51*		*8.00*		*106*	*70-130*			
Matrix Spike (2522038-MS2)				**Source: E505278-06**					Prepared: 05/28/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	96.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.50*		*8.00*		*106*	*70-130*			
Matrix Spike Dup (2522038-MSD2)				**Source: E505278-06**					Prepared: 05/28/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	57.6	20.0	50.0	ND	115	70-130	18.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.90*		*8.00*		*111*	*70-130*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522055-BLK1)									Prepared: 05/28/25 Analyzed: 05/28/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.2*		*50.0*		*104*	*61-141*			
LCS (2522055-BS1)									Prepared: 05/28/25 Analyzed: 05/28/25
Diesel Range Organics (C10-C28)	274	25.0	250		110	66-144			
Surrogate: n-Nonane	*51.3*		*50.0*		*103*	*61-141*			
Matrix Spike (2522055-MS1)				**Source: E505297-01**					Prepared: 05/28/25 Analyzed: 05/28/25
Diesel Range Organics (C10-C28)	1970	25.0	250	1770	79.2	56-156			
Surrogate: n-Nonane	*344*		*50.0*		*689*	*61-141*			*S5*
Matrix Spike Dup (2522055-MSD1)				**Source: E505297-01**					Prepared: 05/28/25 Analyzed: 05/28/25
Diesel Range Organics (C10-C28)	1790	25.0	250	1770	9.33	56-156	9.27	20	M4
Surrogate: n-Nonane	*368*		*50.0*		*736*	*61-141*			*S5*

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/2/2025 11:16:22AM

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 (2522054-BLK1)									Prepared: 05/28/25 Analyzed: 05/28/25
Chloride	ND	20.0							
LCS (2522054-BS1)									Prepared: 05/28/25 Analyzed: 05/28/25
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2522054-MS1)				**Source: E505241-05**					Prepared: 05/28/25 Analyzed: 05/28/25
Chloride	1680	40.0	250	1460	90.1	80-120			
Matrix Spike Dup (2522054-MSD1)				**Source: E505241-05**					Prepared: 05/28/25 Analyzed: 05/28/25
Chloride	1680	40.0	250	1460	90.2	80-120	0.0126	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:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/02/25 11:16

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
S5	Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
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.

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: San Mateo	Company: Ensolum LLC	Lab WO# E505278	Job Number 23003-0002	1D 2D 3D Std: X	NM CO UT TX: X
Project: Tiger 14 CDP	Address: 3122 National Parks Hwy			
Project Manager: Ashley Giovengo	City, State, Zip: Carlsbad NM, 88220			
Address: 3122 National Parks Hwy	Phone: 575-988-0055			
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com			
Phone: 575-988-0055	Miscellaneous:			
Email: agiovengo@ensolum.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
12:03	5/22/2025	S	1	BH01-0'		1						X						4.8
12:10	5/22/2025	S	1	BH01-1'		2						X						4.4
13:08	5/22/2025	S	1	BH02-0		3						X						4.6
13:12	5/22/2025	S	1	BH02-1'		4						X						5.0
13:15	5/22/2025	S	1	BH02-2'		5						X						4.8
13:18	5/22/2025	S	1	BH02-3'		6						X						4.2
14:11	5/22/2025	S	1	BH02-4'		7						X						4.0
14:16	5/22/2025	S	1	BH02-5'		8						X						4.6

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: ____AK, OA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/23/25	7:11	Michelle Gonzales	5-23-25	0711
Michelle Gonzales	5-23-25	1640		5.23.25	1640
	5.23.25	2245		5-21-25	715

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.

Lab Use Only

Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C____

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 14 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: 5/27/2025 9:45:02AM

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:	San Mateo Stebbins Water Management, LLC	Date Received:	05/27/25 07:15	Work Order ID:	E505278
Phone:	(972) 371-5200	Date Logged In:	05/23/25 16:43	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	06/02/25 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	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? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

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

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: Tiger 14 CDP

Work Order: E505293

Job Number: 23003-0002

Received: 5/28/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/3/25

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: 6/3/25

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

Project Name: Tiger 14 CDP
Workorder: E505293
Date Received: 5/28/2025 6:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/28/2025 6:30:00AM, under the Project Name: Tiger 14 CDP.

The analytical test results summarized in this report with the Project Name: Tiger 14 CDP 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
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/03/25 15:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02-0'	E505293-01A	Soil	05/23/25	05/28/25	Glass Jar, 2 oz.
SS02-1'	E505293-02A	Soil	05/23/25	05/28/25	Glass Jar, 2 oz.

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2025 3:17:30PM

SS02-0'

E505293-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2522040
Benzene	ND	0.0250	1	05/28/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/30/25	
Toluene	ND	0.0250	1	05/28/25	05/30/25	
o-Xylene	ND	0.0250	1	05/28/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/30/25	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*	*70-130*	*05/28/25*	*05/30/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2522040
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*98.0 %*	*70-130*	*05/28/25*	*05/30/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2522065
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/25	05/30/25	
Oil Range Organics (C28-C36)	**50.4**	50.0	1	05/29/25	05/30/25	
Surrogate: n-Nonane		*103 %*	*61-141*	*05/29/25*	*05/30/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2522057
Chloride	ND	100	5	05/28/25	05/29/25	

Sample Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2025 3:17:30PM

SS02-1'

E505293-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2522040
Benzene	ND	0.0250	1	05/28/25	05/30/25	
Ethylbenzene	ND	0.0250	1	05/28/25	05/30/25	
Toluene	ND	0.0250	1	05/28/25	05/30/25	
o-Xylene	ND	0.0250	1	05/28/25	05/30/25	
p,m-Xylene	ND	0.0500	1	05/28/25	05/30/25	
Total Xylenes	ND	0.0250	1	05/28/25	05/30/25	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*	*70-130*	*05/28/25*	*05/30/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2522040
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/25	05/30/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*97.6 %*	*70-130*	*05/28/25*	*05/30/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2522065
Diesel Range Organics (C10-C28)	ND	25.0	1	05/29/25	05/30/25	
Oil Range Organics (C28-C36)	**59.3**	50.0	1	05/29/25	05/30/25	
Surrogate: n-Nonane		*101 %*	*61-141*	*05/29/25*	*05/30/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM			Batch: 2522057
Chloride	**278**	100	5	05/28/25	05/29/25	

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2025 3:17:30PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522040-BLK1)									Prepared: 05/28/25 Analyzed: 05/29/25
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: 4-Bromochlorobenzene-PID	*8.05*		*8.00*		*101*	*70-130*			
LCS (2522040-BS1)									Prepared: 05/28/25 Analyzed: 05/29/25
Benzene	5.46	0.0250	5.00		109	70-130			
Ethylbenzene	5.40	0.0250	5.00		108	70-130			
Toluene	5.45	0.0250	5.00		109	70-130			
o-Xylene	5.31	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.2	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.04*		*8.00*		*101*	*70-130*			
Matrix Spike (2522040-MS1)				**Source: E505292-22**					Prepared: 05/28/25 Analyzed: 05/29/25
Benzene	5.54	0.0250	5.00	ND	111	70-130			
Ethylbenzene	5.46	0.0250	5.00	ND	109	70-130			
Toluene	5.52	0.0250	5.00	ND	110	70-130			
o-Xylene	5.38	0.0250	5.00	ND	108	70-130			
p,m-Xylene	11.0	0.0500	10.0	ND	110	70-130			
Total Xylenes	16.4	0.0250	15.0	ND	109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.94*		*8.00*		*99.2*	*70-130*			
Matrix Spike Dup (2522040-MSD1)				**Source: E505292-22**					Prepared: 05/28/25 Analyzed: 05/29/25
Benzene	4.98	0.0250	5.00	ND	99.6	70-130	10.6	27	
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	70-130	10.6	26	
Toluene	4.96	0.0250	5.00	ND	99.3	70-130	10.7	20	
o-Xylene	4.82	0.0250	5.00	ND	96.5	70-130	10.8	25	
p,m-Xylene	9.88	0.0500	10.0	ND	98.8	70-130	10.4	23	
Total Xylenes	14.7	0.0250	15.0	ND	98.1	70-130	10.6	26	
Surrogate: 4-Bromochlorobenzene-PID	*7.86*		*8.00*		*98.2*	*70-130*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2025 3:17:30PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522040-BLK1)									Prepared: 05/28/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.85*		*8.00*		*98.1*	*70-130*			
LCS (2522040-BS2)									Prepared: 05/28/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*8.01*		*8.00*		*100*	*70-130*			
Matrix Spike (2522040-MS2)				**Source: E505292-22**					Prepared: 05/28/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.87*		*8.00*		*98.4*	*70-130*			
Matrix Spike Dup (2522040-MSD2)				**Source: E505292-22**					Prepared: 05/28/25 Analyzed: 05/29/25
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.3	70-130	0.786	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.93*		*8.00*		*99.1*	*70-130*			

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2025 3:17:30PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522065-BLK1)									Prepared: 05/29/25 Analyzed: 05/29/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*53.5*		*50.0*		*107*	*61-141*			
LCS (2522065-BS1)									Prepared: 05/29/25 Analyzed: 05/29/25
Diesel Range Organics (C10-C28)	277	25.0	250		111	66-144			
Surrogate: n-Nonane	*51.1*		*50.0*		*102*	*61-141*			
Matrix Spike (2522065-MS1)				**Source: E505281-02**					Prepared: 05/29/25 Analyzed: 06/03/25
Diesel Range Organics (C10-C28)	7200	500	250	7430	NR	56-156			M4
Surrogate: n-Nonane	*84.3*		*50.0*		*169*	*61-141*			*S5*
Matrix Spike Dup (2522065-MSD1)				**Source: E505281-02**					Prepared: 05/29/25 Analyzed: 06/03/25
Diesel Range Organics (C10-C28)	7940	500	250	7430	204	56-156	9.79	20	M4
Surrogate: n-Nonane	*88.5*		*50.0*		*177*	*61-141*			*S5*

QC Summary Data

San Mateo Stebbins Water Management, LLC	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/3/2025 3:17:30PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2522057-BLK1)									Prepared: 05/28/25 Analyzed: 05/29/25
Chloride	ND	20.0							
LCS (2522057-BS1)									Prepared: 05/28/25 Analyzed: 05/29/25
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2522057-MS1)				**Source: E505292-22**					Prepared: 05/28/25 Analyzed: 05/29/25
Chloride	304	20.0	250	50.9	101	80-120			
Matrix Spike Dup (2522057-MSD1)				**Source: E505292-22**					Prepared: 05/28/25 Analyzed: 05/29/25
Chloride	305	20.0	250	50.9	102	80-120	0.357	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:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/03/25 15:17

M4	Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
S5	Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
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.

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: San Mateo	Company: Ensolum LLC	Lab WO# E505293	1D 2D 3D Std	NM CO UT TX
Project: Tiger 14 CDP	Address: 3122 National Parks Hwy	Job Number 23C03-0002	X	X
Project Manager: Ashley Giovengo	City, State, Zip: Carlsbad NM, 88220			
Address: 3122 National Parks Hwy	Phone: 575-988-0055			
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com			
Phone: 575-988-0055	Miscellaneous:			
Email: agiovengo@ensolum.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks
9:57	5/23/2025	S	1	SS02-0'		1						X						2.9
10:14	5/23/2025	S	1	SS02-1'		2						X						2.8

Analysis and Method

EPA Program: SDWA | CWA | RCRA

Compliance Y or N

PWSID #

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, iestrella@ensoulm.com, bsimmons@ensolum.com, jgonzalez@ensolum.com, bmoir@ensolum.com, oaderinto@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: _____AK; OA

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	5/27/25	7:11	Michelle Gonzales	5.27.23	0711
Michelle Gonzales	5-27-25	1700	Richard Gonzales	5-27-23	1700
Richard Gonzales	5-27-25	23:30	Caitlin Mars	5.28.25	0630
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

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.

Lab Use Only

Received on ice: (Y) / N

T1 _____ T2 _____ T3 _____

AVG Temp °C_____

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 14 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: 5/28/2025 8:11:37AM

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:	San Mateo Stebbins Water Management, LLC	Date Received:	05/28/25 06:30	Work Order ID:	E505293
Phone:	(972) 371-5200	Date Logged In:	05/27/25 15:42	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	06/03/25 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	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? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

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

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name:	Tiger 14 CDP
Work Order:	E506038
Job Number:	23003-0002
Received:	6/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/11/25

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: 6/11/25

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

Project Name: Tiger 14 CDP
Workorder: E506038
Date Received: 6/6/2025 6:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2025 6:45:00AM, under the Project Name: Tiger 14 CDP.

The analytical test results summarized in this report with the Project Name: Tiger 14 CDP 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
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Client Representative
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Resources, LLC.	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/11/25 12:13

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-2'	E506038-01A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH02-7'	E506038-02A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.
BH02-9'	E506038-03A	Soil	06/04/25	06/06/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC.	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/11/2025 12:13:38PM

BH01-2'

E506038-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2523141
Benzene	ND	0.0250	1	06/06/25	06/07/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/07/25	
Toluene	ND	0.0250	1	06/06/25	06/07/25	
o-Xylene	ND	0.0250	1	06/06/25	06/07/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/07/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/07/25	
Surrogate: 4-Bromochlorobenzene-PID		*90.5 %*	*70-130*	*06/06/25*	*06/07/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2523141
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*100 %*	*70-130*	*06/06/25*	*06/07/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2523139
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/10/25	
Surrogate: n-Nonane		*120 %*	*61-141*	*06/06/25*	*06/10/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2523140
Chloride	ND	20.0	1	06/06/25	06/06/25	

Sample Data

Matador Resources, LLC.	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/11/2025 12:13:38PM

BH02-7'

E506038-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2523141
Benzene	ND	0.0250	1	06/06/25	06/07/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/07/25	
Toluene	ND	0.0250	1	06/06/25	06/07/25	
o-Xylene	ND	0.0250	1	06/06/25	06/07/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/07/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/07/25	
Surrogate: 4-Bromochlorobenzene-PID		*91.5 %*	*70-130*	*06/06/25*	*06/07/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2523141
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*06/06/25*	*06/07/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2523139
Diesel Range Organics (C10-C28)	**27.9**	25.0	1	06/06/25	06/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/10/25	
Surrogate: n-Nonane		*121 %*	*61-141*	*06/06/25*	*06/10/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2523140
Chloride	**938**	200	10	06/06/25	06/06/25	

Sample Data

Matador Resources, LLC.	Project Name:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/11/2025 12:13:38PM

BH02-9'

E506038-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2523141
Benzene	ND	0.0250	1	06/06/25	06/07/25	
Ethylbenzene	ND	0.0250	1	06/06/25	06/07/25	
Toluene	ND	0.0250	1	06/06/25	06/07/25	
o-Xylene	ND	0.0250	1	06/06/25	06/07/25	
p,m-Xylene	ND	0.0500	1	06/06/25	06/07/25	
Total Xylenes	ND	0.0250	1	06/06/25	06/07/25	
Surrogate: 4-Bromochlorobenzene-PID		*90.9 %*	*70-130*	*06/06/25*	*06/07/25*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2523141
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/25	06/07/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*101 %*	*70-130*	*06/06/25*	*06/07/25*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2523139
Diesel Range Organics (C10-C28)	ND	25.0	1	06/06/25	06/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/06/25	06/10/25	
Surrogate: n-Nonane		*123 %*	*61-141*	*06/06/25*	*06/10/25*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2523140
Chloride	**1370**	200	10	06/06/25	06/06/25	

QC Summary Data

Matador Resources, LLC.	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/11/2025 12:13:38PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2523141-BLK1)									Prepared: 06/06/25 Analyzed: 06/06/25
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: 4-Bromochlorobenzene-PID	*7.11*		*8.00*		*88.9*	*70-130*			
LCS (2523141-BS1)									Prepared: 06/06/25 Analyzed: 06/06/25
Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.98	0.0250	5.00		99.6	70-130			
Toluene	5.02	0.0250	5.00		100	70-130			
o-Xylene	4.99	0.0250	5.00		99.8	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike (2523141-MS1)				**Source: E506032-03**					Prepared: 06/06/25 Analyzed: 06/06/25
Benzene	5.20	0.0250	5.00	ND	104	70-130			
Ethylbenzene	5.13	0.0250	5.00	ND	103	70-130			
Toluene	5.18	0.0250	5.00	ND	104	70-130			
o-Xylene	5.10	0.0250	5.00	ND	102	70-130			
p,m-Xylene	10.4	0.0500	10.0	ND	104	70-130			
Total Xylenes	15.5	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.32*		*8.00*		*91.5*	*70-130*			
Matrix Spike Dup (2523141-MSD1)				**Source: E506032-03**					Prepared: 06/06/25 Analyzed: 06/06/25
Benzene	5.90	0.0250	5.00	ND	118	70-130	12.5	27	
Ethylbenzene	5.82	0.0250	5.00	ND	116	70-130	12.6	26	
Toluene	5.87	0.0250	5.00	ND	117	70-130	12.5	20	
o-Xylene	5.78	0.0250	5.00	ND	116	70-130	12.4	25	
p,m-Xylene	11.8	0.0500	10.0	ND	118	70-130	12.4	23	
Total Xylenes	17.5	0.0250	15.0	ND	117	70-130	12.4	26	
Surrogate: 4-Bromochlorobenzene-PID	*7.36*		*8.00*		*92.0*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/11/2025 12:13:38PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2523141-BLK1)									Prepared: 06/06/25 Analyzed: 06/06/25
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.61*		*8.00*		*95.1*	*70-130*			
LCS (2523141-BS2)									Prepared: 06/06/25 Analyzed: 06/06/25
Gasoline Range Organics (C6-C10)	50.2	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.81*		*8.00*		*97.6*	*70-130*			
Matrix Spike (2523141-MS2)				**Source: E506032-03**					Prepared: 06/06/25 Analyzed: 06/06/25
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	96.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.77*		*8.00*		*97.1*	*70-130*			
Matrix Spike Dup (2523141-MSD2)				**Source: E506032-03**					Prepared: 06/06/25 Analyzed: 06/06/25
Gasoline Range Organics (C6-C10)	46.2	20.0	50.0	ND	92.3	70-130	3.98	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.83*		*8.00*		*97.8*	*70-130*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/11/2025 12:13:38PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2523139-BLK1)									Prepared: 06/06/25 Analyzed: 06/09/25
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*59.0*		*50.0*		*118*	*61-141*			
LCS (2523139-BS1)									Prepared: 06/06/25 Analyzed: 06/09/25
Diesel Range Organics (C10-C28)	307	25.0	250		123	66-144			
Surrogate: n-Nonane	*59.1*		*50.0*		*118*	*61-141*			
Matrix Spike (2523139-MS1)				**Source: E506036-07**					Prepared: 06/06/25 Analyzed: 06/10/25
Diesel Range Organics (C10-C28)	784	25.0	250	532	101	56-156			
Surrogate: n-Nonane	*60.8*		*50.0*		*122*	*61-141*			
Matrix Spike Dup (2523139-MSD1)				**Source: E506036-07**					Prepared: 06/06/25 Analyzed: 06/10/25
Diesel Range Organics (C10-C28)	830	25.0	250	532	119	56-156	5.71	20	
Surrogate: n-Nonane	*58.8*		*50.0*		*118*	*61-141*			

QC Summary Data

Matador Resources, LLC.	Project Name:	Tiger 14 CDP	**Reported:**
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/11/2025 12:13:38PM

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 (2523140-BLK1)									Prepared: 06/06/25 Analyzed: 06/06/25
Chloride	ND	20.0							
LCS (2523140-BS1)									Prepared: 06/06/25 Analyzed: 06/06/25
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2523140-MS1)				**Source: E506031-02**					Prepared: 06/06/25 Analyzed: 06/06/25
Chloride	259	20.0	250	ND	104	80-120			
Matrix Spike Dup (2523140-MSD1)				**Source: E506031-02**					Prepared: 06/06/25 Analyzed: 06/06/25
Chloride	259	20.0	250	ND	104	80-120	0.180	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:	Tiger 14 CDP	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	**Reported:**
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/11/25 12:13

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.

envirotech
Analytical Laboratory

Chain of Custody

Client Information	Invoice Information	Lab Use Only	TAT	State
Client: Matador Production Company	Company: Ensolum LLC	Lab WO# E506038	1D 2D 3D Std	NM CO UT TX
Project Name: Tiger 14 CDP	Address: 3122 National Parks Hwy	Job Number 23003-0002	x	x
Project Manager: Ashley Giovengo	City, State, Zip: Carlsbad NM, 88220			
Address: 3122 National Parks Hwy	Phone: 575-988-0055			
City, State, Zip: Carlsbad NM, 88220	Email: agiovengo@ensolum.com			
Phone: 575-988-0055	Miscellaneous:			
Email: agiovengo@ensolum.com				

Sample Information

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals		BGDOC - NM	BGDOC - TX		Sample Temp	Remarks
1259	6/4/2025	Soil	1	BH01-2'		1									+			3.3	
1054	6/4/2025	Soil	1	BH02-7'		2									+			3.9	
1153	6/4/2025	Soil	1	BH02-9'		3									+			3.6	

Analysis and Method

EPA Program

SDWA	CWA	RCRA

Compliance Y or N

PWSID #

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, jhinkle@ensolum.com, akone@ensolum.com, jgonzales@ensolum.com,

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Sampled by: Jenna Hinkle

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jenna Hinkle	6/5/2025	7:00	Michelle Gonzales	6-5-25	0700
Michelle Gonzales	6.5.25	1615		6.5.25	1615
	6.5.25	2330	Noe Soto	6-6-25	0645

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days.

Lab Use Only

Received on ice: Y / N

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 14 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: 6/6/2025 9:36:28AM

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:	06/06/25 06:45	Work Order ID:	E506038
Phone:	(972) 371-5200	Date Logged In:	06/05/25 15:19	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	06/12/25 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	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? Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling	Yes
13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.	

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.

ENSOLUM

APPENDIX F

NMOCD Correspondence

From:	Velez, Nelson, EMNRD
To:	Chad Hamilton
Cc:	Ashley Giovengo; Jason Touchet; Bratcher, Michael, EMNRD; Rodgers, Scott, EMNRD; Wells, Shelly, EMNRD
Subject:	Re: [EXTERNAL] FW: Extension Request - San Mateo Black River Oil Pipeline, LLC - Tiger 14 CDP - nAPP2513455553
Date:	Thursday, August 14, 2025 2:59:46 PM
Attachments:	image001.png image002.png image003.png Outlook-zwocn4rn.png

[**EXTERNAL EMAIL**]
Good afternoon Chad,

Thank you for your correspondence. Your 90-day time extension is approved. Remediation Due date has been updated to November 10, 2025.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez ● Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Thursday, August 14, 2025 2:36 PM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Ashley Giovengo <agiovengo@ensolum.com>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>;

Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] FW: Extension Request - San Mateo Black River Oil Pipeline, LLC - Tiger 14 CDP - nAPP2513455553

Shelly,

I have been attempting to email Scott and Nelson for a couple of days now and neither are getting any emails from me. There are two releases at the Tiger 14 CDP. One is under Scott and the other is under Nelson. I guess I had mixed up which release went to their respective approver and told Ashley to forward to the wrong person. If you don't mind could you have Nelson reach out to me as I have still not been able to get a hold of him either via email or phone.

Thanks for the help.

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, August 14, 2025 2:29 PM
To: Ashley Giovengo <agiovengo@ensolum.com>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Chad Hamilton <chamilton@ensolum.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: RE: [EXTERNAL] FW: Extension Request - San Mateo Black River Oil Pipeline, LLC - Tiger 14 CDP - nAPP2513455553

[**EXTERNAL EMAIL**]
Good afternoon Ashley,

Nelson Velez is the reviewer of this incident so I am cc'ing him on this email.

Kind regards,

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: Thursday, August 14, 2025 2:09 PM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] FW: Extension Request - San Mateo Black River Oil Pipeline, LLC - Tiger 14 CDP - nAPP2513455553

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

Scott,

Please see the forwarded correspondence below.

Thanks,

Ashley Giovengo
Associate Principal
575-988-0055
Ensolum, LLC
"Your authenticity is your superpower." – Unknown

From: Chad Hamilton <chamilton@ensolum.com>
Sent: Wednesday, August 13, 2025 9:25 AM
To: Rodgers, Scott, EMNRD <scott.rodgers@emnrd.nm.gov>; Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>
Subject: RE: Extension Request - San Mateo Black River Oil Pipeline, LLC - Tiger 14 CDP - nAPP2513455553

Scott,

I just wanted to touch base with you and make sure that you received the extension request that I sent yesterday afternoon for the Tiger 14 CDP.

Thanks,

From: Chad Hamilton
Sent: Tuesday, August 12, 2025 3:13 PM
To: Rodgers, Scott, EMNRD <scott.rodgers@emnrd.nm.gov>; Enviro, OCD, EMNRD

<ocd.enviro@emnrd.nm.gov>; Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>
Subject: Extension Request - San Mateo Black River Oil Pipeline, LLC - Tiger 14 CDP - nAPP2513455553

Hello all,

San Mateo Black River Oil Pipeline, LLC (San Mateo) is requesting an extension of the current deadline of August 12, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Tiger 14 CDP (Site) (Incident Number nAPP2513455553). The release occurred on May 14, 2025, and 15 barrels (bbls) of crude oil were released; 10 bbls of crude oil were recovered. The release impacted an area on-pad approximately 1,695 square feet in size on Private Land. Lateral and vertical delineation soil sampling in accordance with the strictest Closure Criteria per NMOCD Table I criteria is currently on-going. San Mateo commissioned Southwest Geophysical Consulting, LLC to complete a karst survey on July 9, 2025. Excavation of the subject matter release will begin once delineation soil sampling activities have been completed at the Site. Matador intends to submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Matador respectfully requests a 90-day extension until November 10, 2025. Please let me know if you have any further questions regarding this site.

Thanks

Sent from my Verizon, Samsung Galaxy smartphone
Get Outlook for Android

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 462437

QUESTIONS

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 462437
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Tiger 14 CDP
Date Release Discovered	05/14/2025
Surface Owner	Private

Incident Details *Please answer all the questions in this group.*	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a 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	Cause: Equipment Failure | Pump | Crude Oil | Released: 15 BBL | Recovered: 10 BBL | Lost: 5 BBL.
Produced Water Released (bbls) Details	*Not answered.*
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)	LACT Pump Seal failed resulting in unexpected release of Crude Oil.

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

QUESTIONS (continued)

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 462437
	Action Type: [NOTIFY] Notification Of Release (NOR)

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 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 462437
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

☑	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
☑	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
☑	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
☑	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.
☑	I acknowledge the fact that 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.
☑	I acknowledge the fact that, 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.

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

CONDITIONS

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 462437
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	5/14/2025

Impacted Soil On-Pad
Saturated Soil (inches)
1.75
Area (sq. ft.)
1306
Standing fluids
inches of standing fluid
0.25
bbl estimate of standing fluids
barrels recovered (if known)
10
Soil type
pad caliche
Spill type
oil(crude)
Barrel estimate in soil
4.5
Barrel estimate (standing fluids/ recovered+in soil)
14.5

Impacted Soil On-Pad
Saturated Soil (inches)
0.25
Area (sq. ft.)
390
Standing fluids
inches of standing fluid
0
bbl estimate of standing fluids
barrels recovered (if known)
0
Soil type
pad caliche
Spill type
oil(crude)
Barrel estimate in soil
0.2
Barrel estimate (standing fluids/ recovered+in soil)
0.2

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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 464842

QUESTIONS

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 464842
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2513455553**
Incident Name	**NAPP2513455553 TIGER 14 CDP @ 0**
Incident Type	**Oil Release**
Incident Status	**Initial C-141 Received**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	Tiger 14 CDP
Date Release Discovered	05/14/2025
Surface Owner	Private

Incident Details *Please answer all the questions in this group.*	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a 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	Cause: Equipment Failure | Pump | Crude Oil | Released: 15 BBL | Recovered: 10 BBL | Lost: 5 BBL.
Produced Water Released (bbls) Details	*Not answered.*
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)	LACT Pump Seal failed resulting in unexpected release of Crude Oil.

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Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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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 (continued)

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 464842
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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: 05/19/2025

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QUESTIONS (continued)

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 464842
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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)	*Not answered.*
What method was used to determine the depth to ground water	*Not answered.*
Did this release impact groundwater or surface water	*Not answered.*
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	*Not answered.*
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	*Not answered.*
An occupied permanent residence, school, hospital, institution, or church	*Not answered.*
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	*Not answered.*
Any other fresh water well or spring	*Not answered.*
Incorporated municipal boundaries or a defined municipal fresh water well field	*Not answered.*
A wetland	*Not answered.*
A subsurface mine	*Not answered.*
An (non-karst) unstable area	*Not answered.*
Categorize the risk of this well / site being in a karst geology	*Not answered.*
A 100-year floodplain	*Not answered.*
Did the release impact areas not on an exploration, development, production, or storage site	*Not answered.*

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	No
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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CONDITIONS

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 464842
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	5/20/2025

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QUESTIONS

Action 524776

QUESTIONS

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 524776
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2513455553**
Incident Name	**NAPP2513455553 TIGER 14 CDP @ P-14-24S-28E**
Incident Type	**Oil Release**
Incident Status	**Remediation Plan Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Tiger 14 CDP
Date Release Discovered	05/14/2025
Surface Owner	Private

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a 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	Cause: Equipment Failure | Pump | Crude Oil | Released: 15 BBL | Recovered: 10 BBL | Lost: 5 BBL.
Produced Water Released (bbls) Details	*Not answered.*
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)	LACT Pump Seal failed resulting in unexpected release of Crude Oil.

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QUESTIONS (continued)

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 524776
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: 11/10/2025

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QUESTIONS (continued)

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 524776
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 51 and 75 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 500 and 1000 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (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 ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
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	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	9530
GRO+DRO (EPA SW-846 Method 8015M)	6180
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
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	12/15/2025
On what date will (or did) the final sampling or liner inspection occur	05/23/2025
On what date will (or was) the remediation complete(d)	01/15/2026
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1694
What is the estimated volume (in cubic yards) that will be remediated	63
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 Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 524776
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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.)	
(Ex Situ) Excavation and **off-site** disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for **off-site** disposal	*Not answered.*
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	*Not answered.*
OR is the **off-site** disposal site, to be used, an NMED facility	Yes
What is the name of the NMED facility	Lea Land Disposal
(Ex Situ) Excavation and **on-site** remediation (i.e. On-Site Land Farms)	*Not answered.*
(In Situ) Soil Vapor Extraction	*Not answered.*
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	*Not answered.*
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	*Not answered.*
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	*Not answered.*
Ground Water Abatement pursuant to 19.15.30 NMAC	*Not answered.*
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: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 11/10/2025
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 Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 524776
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS (continued)

Operator:	OGRID:
San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	329461
	Action Number: 524776
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	***{Unavailable.}***

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	No

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CONDITIONS

Operator: San Mateo Black River Oil Pipeline, LLC 5400 LBJ Freeway Dallas, TX 75240	OGRID: 329461
	Action Number: 524776
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved with the following conditions; 1. San Mateo Black River Oil Pipeline, LLC (San Mateo) must complete the excavation and removal of impacted soils until confirmation samples collected from the bottom and sidewalls of the excavation report NMOCD Closure Criteria per 19.15.29.12 NMAC has been achieved. 2. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, San Mateo must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 3. San Mateo has 90-days (April 7, 2026) to submit to OCD its appropriate or final remediation closure report.	1/7/2026