



January 13, 2026

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

**Re: Deferral Request
Government D TB
Incident Number nAPP2507528555
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document assessment, excavation, and soil sampling activities at the Government D TB (Site). The Site is located in Unit C, Section 12, Township 21 South, Range 27 East, in Eddy County, New Mexico (32.50199°, -104.14477°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water. Based on field observations, field screening activities, and soil sampling laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2507528555 until the Site is reconstructed and/or the well pad is abandoned.

BACKGROUND

On March 15, 2025, a leak developed on one of the produced water storage tanks located inside an earthen containment. As a result, approximately 28 barrels (bbls) of produced water were released into the secondary lined earthen containment; 25 bbls of produced water were recovered with a vacuum truck; 3 bbls of produced water were unrecoverable. The release impacted the lined earthen containment. Matador reported the release via Notification of Release (NOR) to the New Mexico Oil Conservation Division (NMOCD) on March 16, 2025, and submitted an Initial C-141 Application (C-141) on March 18, 2025. The release was assigned Incident Number nAPP2507528555. A 48-Hour advance notice was given to the NMOCD on March 27, 2025, prior to conducting a Liner Integrity inspection at the Site. The liner was determined to be insufficient to contain the release in question.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below.

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The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-4992POD1, located at the Site. The well was a soil boring drilled to assess depth to groundwater beneath the Site and was advanced to a depth of approximately 55 feet below ground surface (bgs) on September 16, 2025, and measured on October 24, 2025. The depth to groundwater beneath the Site was measured at 32 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is the Lone Tree Draw, located approximately 2,836 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high potential karst designation area). Site receptors are identified on Figure 1.

On June 17, 2025, Ensolum commissioned a geophysical karst survey using a BLM approved third-party cave/karst specialist. 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. The karst survey report is included in Appendix B. Based on the findings of the karst survey, unstable geology and/or potential conduits to groundwater through karst features appear to be absent, and the medium karst potential classification is not indicative of a sensitive receptor at this Site.

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

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

DELINEATION SAMPLING ACTIVITIES

Beginning on March 21, 2025, Ensolum personnel were onsite to conduct delineation soil sampling within and around the release extent. Four preliminary assessment soil samples (SS01 through SS04) were collected at the ground surface and 1-foot bgs to verify the lateral extent of the release area. A liner integrity inspection was conducted on March 31, 2025, and 19 holes were identified in the containment liner. Four boreholes (BH01 through BH04) were advanced via hand auger within the vicinity of the holes inside the containment liner to a depth of 2 feet bgs. Borehole BH05 was advanced on-pad to a depth of 3 feet bgs in an impacted area identified during lateral delineation soil sampling. Soil from the preliminary assessment samples and from the boreholes were field screened for chloride and TPH utilizing Hach® chloride QuanTab® test strips and a PetroFLAG® Soil Analyzer System, respectively. In addition to the boreholes, Ensolum personnel collected lateral assessment soil sample SS03A at ground surface and 1-foot bgs.

Ensolum personnel returned to the Site between April 29 and May 07, 2025, to collect additional lateral assessment soil samples (SS05 through SS09) at ground surface and 1-foot bgs and to advance borehole BH05 with a handheld, gas powered core drill to a depth of 19 feet bgs.

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Ensolum personnel returned to the Site on December 16, 2025, to collect additional borehole soil samples (BH06 and BH07) at depths ranging from 3 feet to 7 feet bgs utilizing a hand auger. 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. The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Envirotech Laboratory Analysis (Envirotech) in Farmington, New Mexico, for analysis of the following constituents 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.

EXCAVATION AND CONFIRMATION SAMPLING ACTIVITIES

From November 11 through November 20, 2025, Ensolum personnel were onsite to oversee excavation of the impacted area on-pad. Excavation of the accessible release area was completed with a track hoe, front-end loader, and hand tools to depths ranging from 2 feet to 4 feet bgs. Following the removal of impacted soil, Ensolum personnel collected 14, 5-point composite confirmation soil samples (FS01 through FS14) representing no more than 200 square feet from the floor of the excavation, and seven, 5-point composite confirmation (SW01 through SW07) from the sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a resealable plastic bag and homogenizing the samples by thoroughly mixing. All samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 2,138 square feet and approximately 180 cubic yards of impacted soil was removed from the excavation. The impacted soil removed during excavation activities was transported and disposed of at Lea Land, LLC disposal facility. After completion of confirmation sampling, the excavation area was secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples SS01 through SS09 and SS03A, collected at ground surface and 1-foot bgs, were all in compliance with the strictest Closure Criteria per NMOC Table I. Laboratory analytical results for boreholes BH01, BH02 and BH04, located inside the lined earthen containment, indicated all COC concentrations were in compliance with the strictest Closure Criteria at 1-foot bgs. Laboratory analytical results for boreholes BH03, located inside the lined earthen containment, indicated all COC concentrations were in compliance with the strictest Closure Criteria at 2 feet bgs. Laboratory analytical results for borehole BH05 indicated all COC concentrations were in compliance with the strictest Closure Criteria at 15 feet bgs. Laboratory analytical results for boreholes BH06 and BH07 indicated all COC concentrations were in compliance with the strictest Closure Criteria at 3 feet bgs and 5 feet bgs, respectively.

Laboratory analytical results for excavation floor samples FS01 through FS14, collected from the impacted area on-pad, were all in compliance with the strictest Closure Criteria at depths ranging from ground surface to 4 feet bgs. Confirmation sidewall soil samples SW01 through SW07, collected at depths ranging from ground surface to 4 feet bgs, were all in compliance with the strictest Closure Criteria.

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DEFERRAL REQUEST

Discrete soil samples collected from borehole sample locations BH01 through BH04, collected at depths ranging from ground surface to 2 feet bgs, are located directly under the containment liner and in the direct vicinity of production equipment, which limits excavation inside the earthen containment. Discrete soil sample location BH05, collected at depths ranging from ground surface to 19 feet bgs, is in the vicinity of active production equipment, which limits excavation. Active production equipment in the vicinity of borehole BH05 include a pipe rack with supports that have been cemented into the ground. The close proximity of production equipment to the west of borehole BH05 and the secondary lined earthen berm to the north do not allow for safe excavation as the soil type present will require significant sloping that will potentially compromise the structural integrity of the production equipment. Further excavation of impacted soil presents a risk to human health and the environment. The area of requested deferral is vertically defined by boreholes BH01, BH02 and BH04 at 1-foot bgs, borehole BH03 at 2 feet bgs and by borehole BH05 at 15 feet bgs and laterally defined by delineation soil samples SS01, SS02, SS03A, SS04 and SS05 collected at ground surface and 1-foot bgs and by borehole BH07 collected at depths ranging from 5 feet bgs to 7 feet bgs. The laboratory analytical results are summarized in Tables 1 through 3 and the complete laboratory analytical reports are included in Appendix E. All sampling notifications to NMOCD and additional correspondence are included in Appendix F.

Matador is requesting deferral of final remediation due to the presence of active production equipment, production tanks and lined earthen berm preventing full excavation of impacted soil. The estimated area of requested deferral is approximately 5,269 square feet in size and assuming an average depth of 1-foot based on the analytical results from delineation boreholes BH01, BH02 and BH04 and a depth of 2 feet bgs in borehole BH03 under the lined earthen berm and a depth of 15 feet bgs from delineation borehole BH05, approximately 408 cubic yards of impacted soil remains in place. The deferral area and delineation soil samples are depicted on Figure 4.

Impacted soil is limited to the area beneath active production equipment and within the containment area, where remediation would require a major facility deconstruction. The release extent has been laterally defined by delineation soil samples SS01 through SS03A, SS04 and SS04, and SS05, collected at ground surface and 1-foot bgs, and vertically defined by boreholes BH01 through BH04, collected depths ranging from ground surface to 2 feet bgs. Impacts found during delineation activities outside of release extent are laterally defined by delineation soil samples SS03A, and SS06 through SS09, collected at ground surface and 1-foot bgs and by confirmation sidewall soil samples (SW01 through SW07) collected at depths ranging from ground surface to 4 feet bgs. The impacted area on-pad is vertically defined by boreholes samples BH05 through BH07, collected at depths ranging from ground surface to 15 feet bgs.

Matador does not believe deferral will result in imminent risk to human health, the environment, or groundwater. Depth to groundwater was determined to be 32 feet bgs, and all accessible impacted soil was removed during the excavation activities to the maximum extent practicable (MEP). Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2507528555 until final reclamation of the well pad or major construction, whichever comes first.

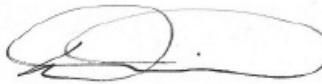
If you have any questions or comments, please contact Mrs. Ashley Urzedo at (575) 988-0055 or agiovengo@ensolum.com.

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Sincerely,
Ensolum, LLC



Chad Hamilton
Project Geologist



Daniel R. Moir, PG (license in WY & TX)
Associate Principal, Geologist

cc: Jason Touchet, Matador Production Company
BLM

Appendices:

- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Figure 3 Excavation Soil Sample Locations
- Figure 4 Area of Requested Deferral

- Table 1 Soil Sample Analytical Results (Delineation Soil Samples)
- Table 2 Soil Sample Analytical Results (Excavation Soil Samples)
- Table 3 Soil Sample Analytical Results (Sidewall Soil Samples)

- Appendix A Well Record and Log
- 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 Notifications



FIGURES

Legend

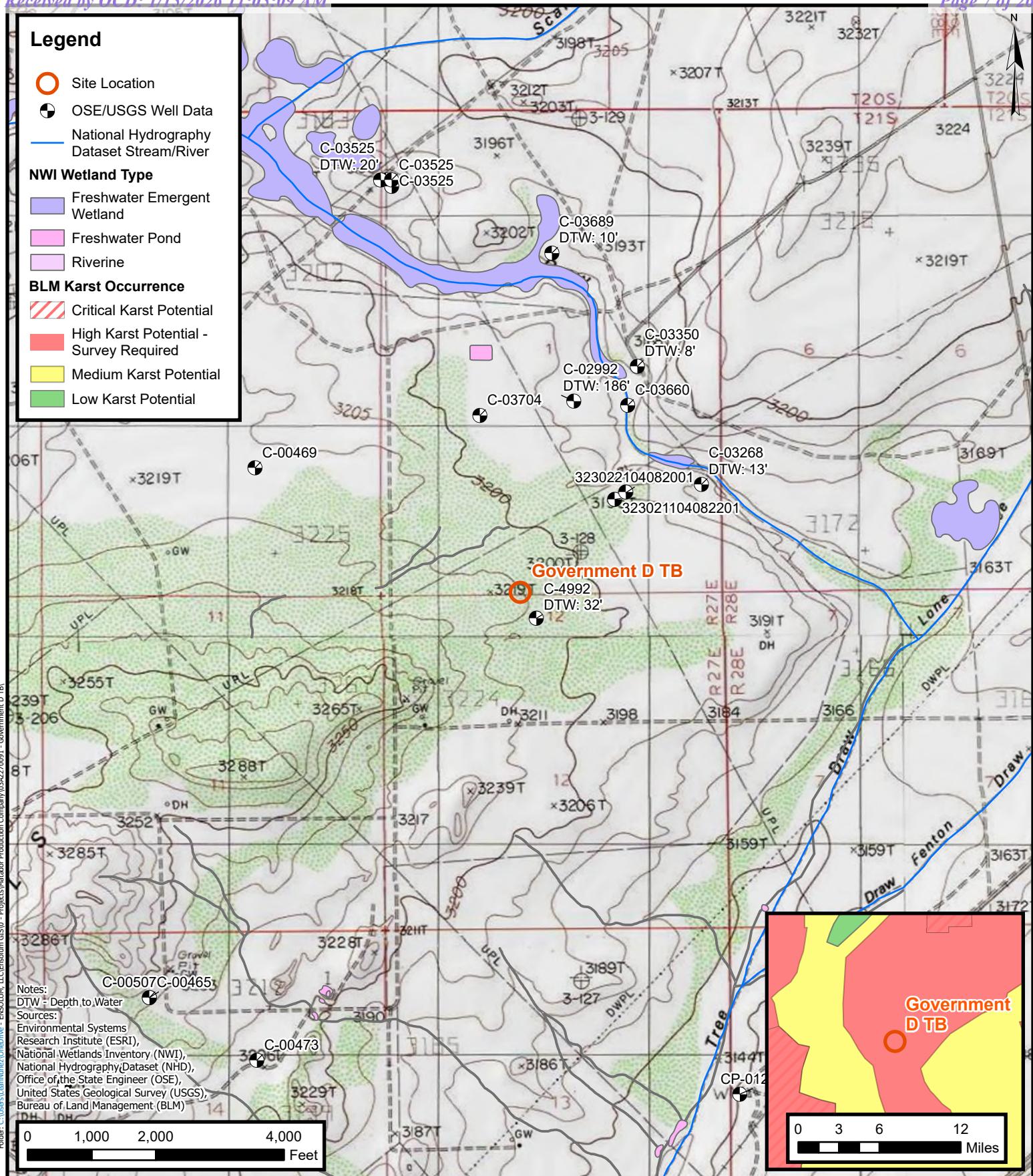
- Site Location
- OSE/USGS Well Data
- National Hydrography Dataset Stream/River

NWI Wetland Type

- Freshwater Emergent Wetland
- Freshwater Pond
- Riverine

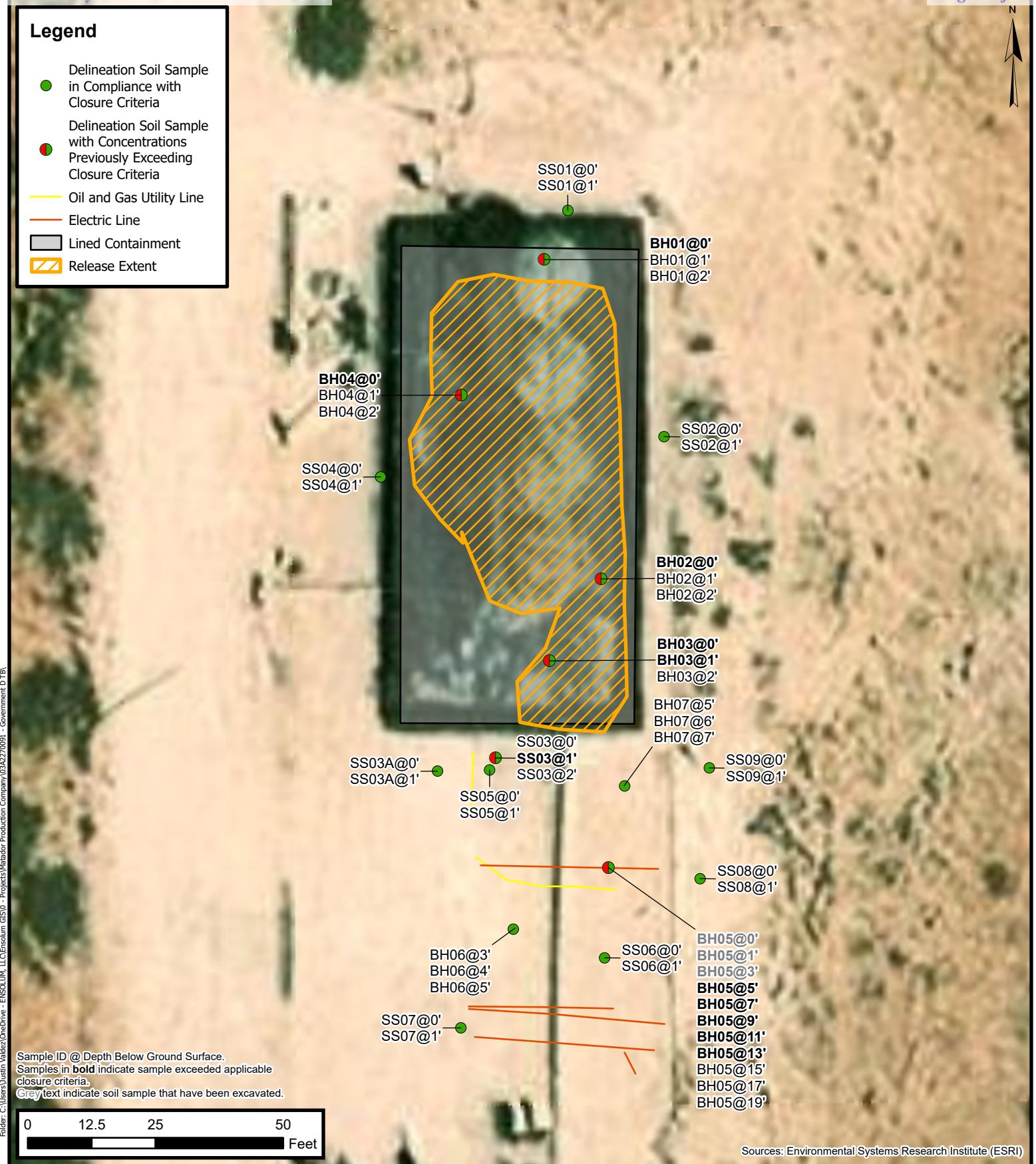
BLM Karst Occurrence

- Critical Karst Potential
- High Karst Potential - Survey Required
- Medium Karst Potential
- Low Karst Potential

**Site Receptor Map**

Matador Production Company
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 Unit C, Section 12, T 21S, R 27E
 Eddy County, New Mexico

FIGURE
1



Sample ID @ Depth Below Ground Surface.
Samples in **bold** indicate sample exceeded applicable closure criteria.
Grey text indicate soil sample that have been excavated.

0 12.5 25 50 Feet

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

Delineation Soil Sample Locations

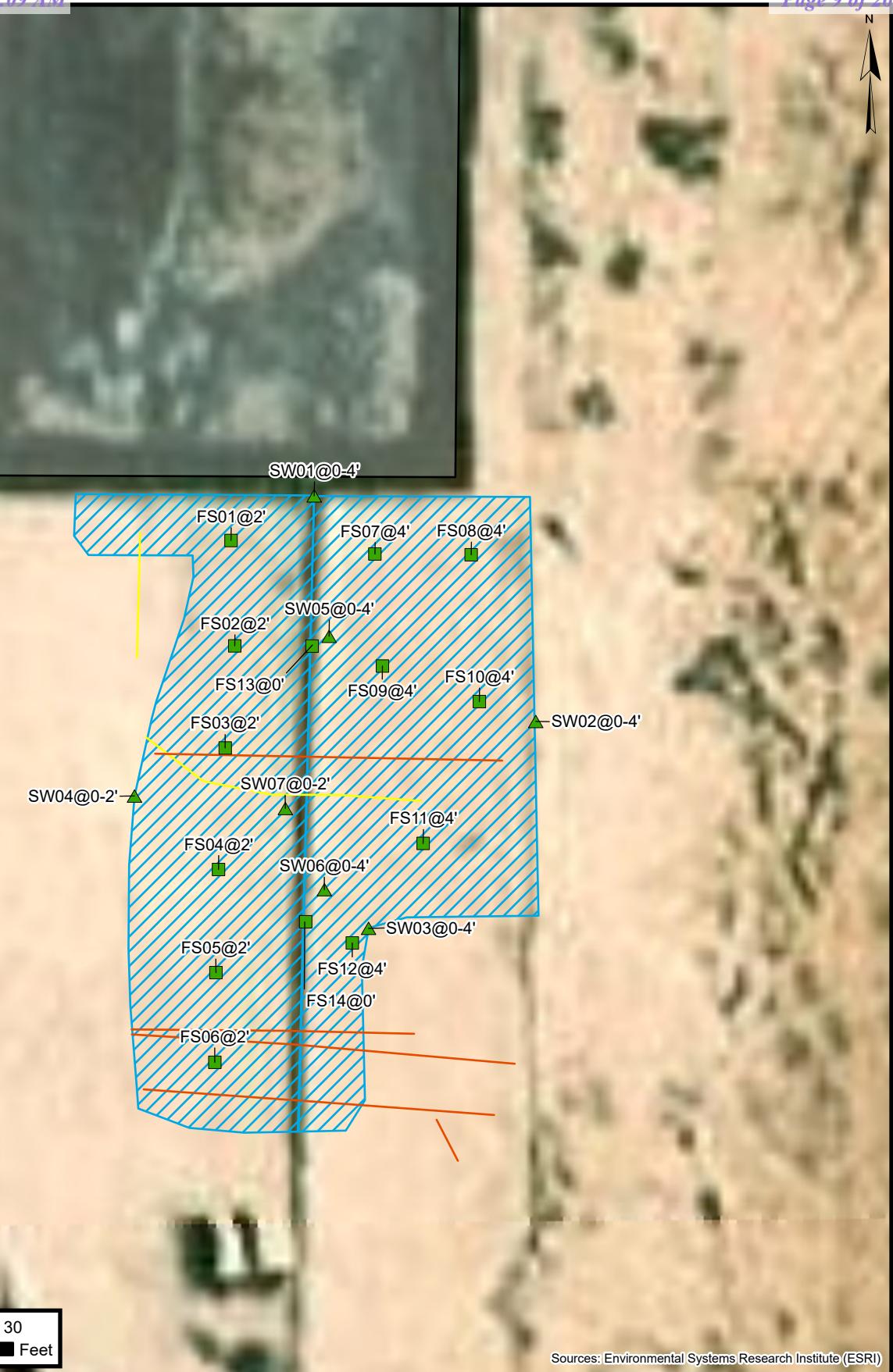
Matador Production Company
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FIGURE 2

Legend

- Excavation Floor Soil
- Sample in Compliance with Closure Criteria
- Excavation Sidewall Soil
- Sample in Compliance with Closure Criteria
- Oil and Gas Utility Line
- Electric Line
- Lined Containment
- Excavation Extent

N

Environmental, Engineering and
Hydrogeologic Consultants**Excavation Soil Sample Locations**

Matador Production Company

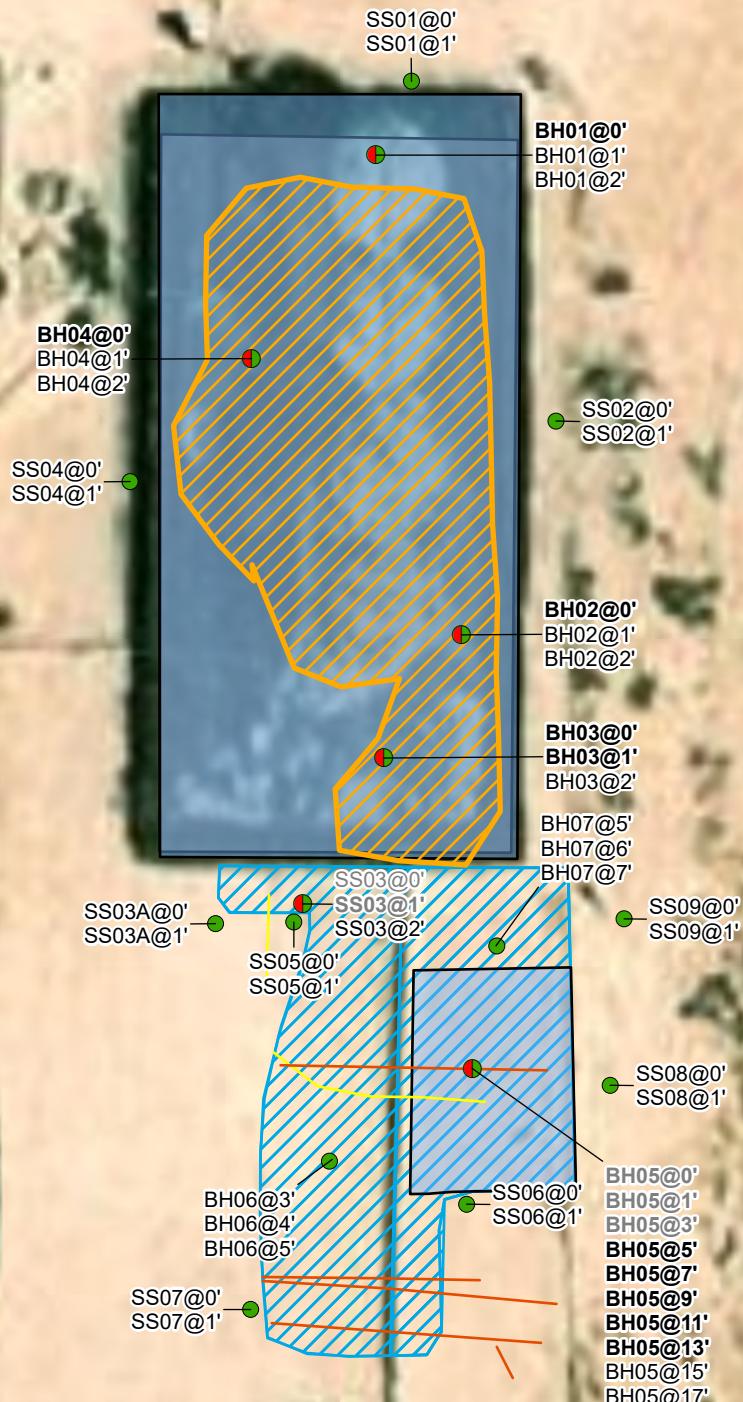
Government D TB

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Unit C, Section 12, T 21S, R 27E
Eddy County, New Mexico**FIGURE
3**

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Oil and Gas Utility Line
- Electric Utility Line
- Deferral Area
- Lined Containment
- Release Extent
- Excavation Extent



Sources: Environmental Systems Research Institute (ESRI)



Environmental, Engineering and Hydrogeologic Consultants

Area of Requested Deferral

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Unit C, Section 12, T 21S, R 27E

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FIGURE
4



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
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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	NE	100	600
Delineation Soil Samples										
SS01	3/21/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS01	3/21/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	3/21/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	264
SS02	3/21/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	3/21/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS03	3/21/2025	1	<0.0250	<0.0500	<20.0	107	220	107	327	<40.0
SS03	4/29/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03A	3/31/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	179
SS03A	3/31/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.7
SS04	3/21/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	170
SS04	3/21/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS05	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS05	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS06	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
SS06	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<100
SS07	5/7/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS07	5/7/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	185
SS08	4/30/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	96.8
SS08	4/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	246
SS09	4/30/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	153
SS09	4/30/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	344
BH01	3/31/2025	0	<0.0250	<0.0500	<20.0	72.6	<50.0	<25.0	72.6	4,030
BH01	3/31/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	24.0
BH01	3/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	89.5
BH02	3/31/2025	0	<0.0250	<0.0500	<20.0	26.3	57.9	26.3	84.2	2,760
BH02	3/31/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02	3/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH03	3/31/2025	0	<0.0250	<0.0500	<20.0	537	1,090.0	537	1,627	5,730
BH03	3/31/2025	1	<0.0250	<0.0500	<20.0	39.1	62.5	39.1	101.6	<40.0
BH03	3/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH04	3/31/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,140
BH04	3/31/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH04	3/31/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH05	4/29/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,360
BH05	4/29/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,600
BH05	4/29/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,790
BH05	5/7/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,310
BH05	5/7/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	812



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
Government D TB
Matador Production Company
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	NE	100	600
Delineation Soil Samples										
BH05	5/7/2025	9	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	659
BH05	5/7/2025	11	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	642
BH05	5/7/2025	13	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	658
BH05	5/7/2025	15	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	356
BH05	5/7/2025	17	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	367
BH05	5/7/2025	19	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	122
BH06	12/16/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	322
BH06	12/16/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	308
BH06	12/16/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	74.6
BH07	12/16/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	278
BH07	12/16/2025	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	260
BH07	12/16/2025	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	339

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 2
SOIL SAMPLE ANALYTICAL RESULTS
Government D TB
Matador Production Company
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	NE	100	600
Excavation Floor Soil Samples										
FS01	11/19/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	168
FS02	11/19/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	237
FS03	11/19/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	145
FS04	11/19/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	53.4
FS05	11/19/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	140
FS06	11/19/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	219
FS07	11/19/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.2
FS08	11/19/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	81.7
FS09	11/19/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	88.4
FS10	11/19/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	94.8
FS11	11/19/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.2
FS12	11/19/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.4
FS13	11/19/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	96.8
FS14	11/19/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.8

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
Government D TB
Matador Production Company
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	NE	100	600
Sidewall Soil Samples										
SW01	11/19/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	76.9
SW02	11/19/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	82.3
SW03	11/19/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	95.5
SW04	11/19/2025	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	85.8
SW05	11/19/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	90.6
SW06	11/19/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	83.0
SW07	11/19/2025	0-2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	283

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Record and Log



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

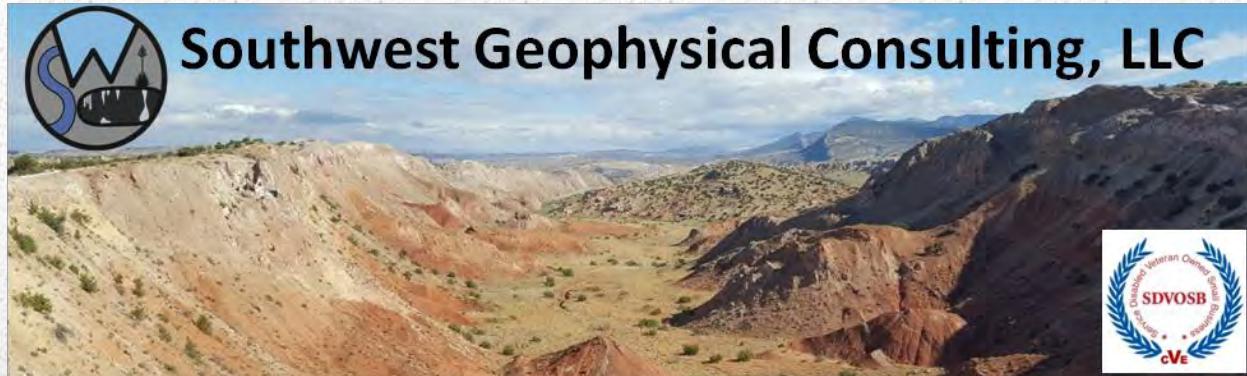
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S) C-4992			
	WELL OWNER NAME(S) Matador Production Co.				PHONE (OPTIONAL) 337-652-3463			
	WELL OWNER MAILING ADDRESS 5400 Lyndon B. Johnson FWY Ste. 1500				CITY Dallas	STATE TX	ZIP 75240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	32	MINUTES 30	SECONDS 3.14	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
		LONGITUDE	104	8	38.25		W	* DATUM REQUIRED: WGS 84
	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE UL-C S-12 T-21S R-27E							
	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley			NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC		
	DRILLING STARTED 9/16/25	DRILLING ENDED 9/16/25	DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 60	DEPTH OF WATER FIRST ENCOUNTERED (FT) 32			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED) Centralizer info below				STATIC WATER LEVEL IN COMPLETED WELL (FT) 32	DATE STATIC MEASURED 10/24/25		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS <input type="checkbox"/> INSTALLED			
DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)	
FROM	TO							
			No casing left in hole					
2. DRILLING & CASING INFORMATION	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL <i>*if using Centralizers for Artesian wells- indicate the spacing below</i>		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO		N/A				
FOR OSE INTERNAL USE								
FILE NO.			POD NO.	TRN NO.				
LOCATION			WELL TAG ID NO.			PAGE 1 OF 2		



APPENDIX B

Karst Survey



Environmental Karst Study Report

Matador Government D Tank Battery

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**

July 25, 2025

ENS-012-20250617

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MMXXV

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1.0 INTRODUCTION

This report was commissioned by Ensolum, LLC (hereinafter referred to as "the client"), on June 17, 2025, for the purpose of conducting an environmental karst study within an area encompassing the Matador Government D Tank Battery release site (hereinafter termed "GDTB") centered at N 32.501998° W 104.144572°.

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 Matador Government D Tank Battery release as provided by the client via e-mail (**Government D TB.kmz**) on June 17, 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.**
- **No anomalies consistent with subsurface air- or water-filled voids were found within the GDTB geophysical survey area, indicating the zone beneath the geophysical survey is not subject to collapse.**
- **Well-layered stratigraphy is interpreted to exist beneath the area where the geophysical survey was conducted, indicating stable ground within the 200-foot survey boundary.**

1.3 Affected Environment

The GDTB 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.

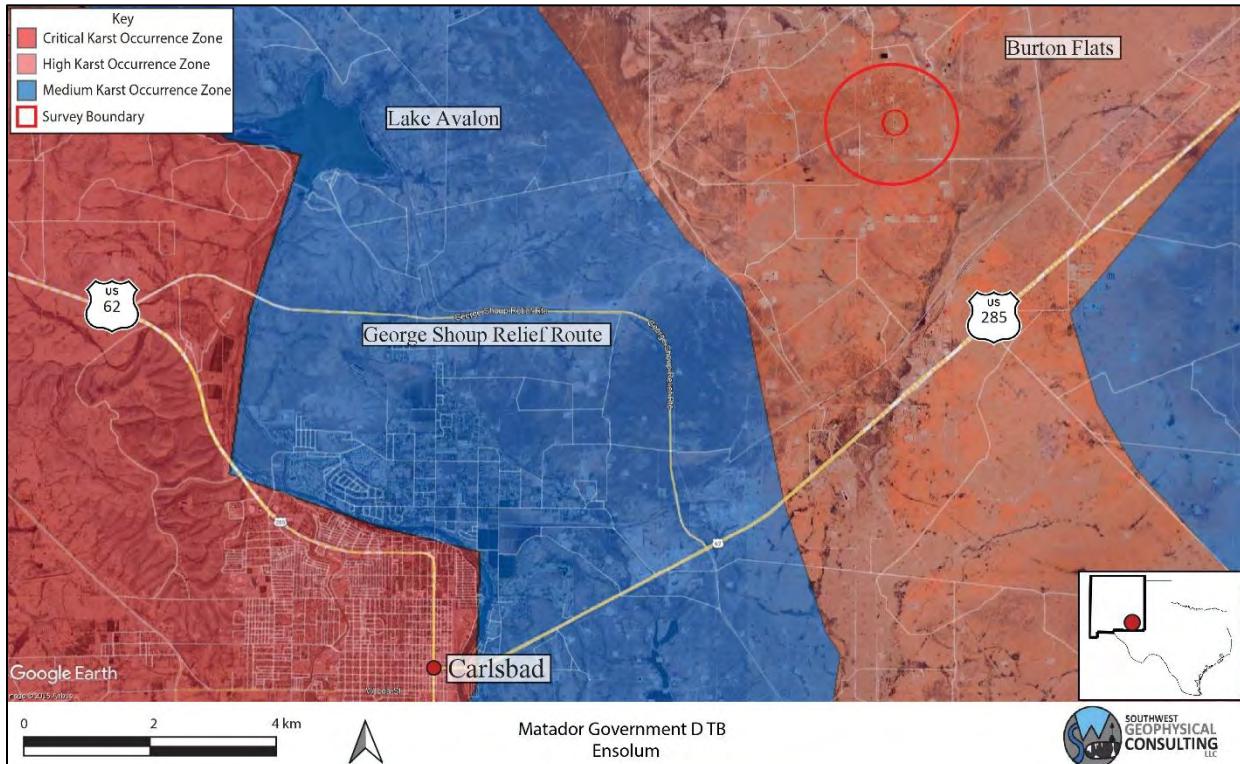


Figure 1: Karst occurrence zone overview. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

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 12.2 kilometers (7.6 miles) northeast of Carlsbad, New Mexico, north of U.S. Highway 62 and west of Magnum Road. The release area is located within the southern portion of section 1 and the northern portion of section 12, NM T21S R29E^[6] (**Figure 1** and **Figure 2**). The region has rolling terrain with karstification occurring in the gypssite 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 BLM-CFO managed land^[10] (**Figure 2**).

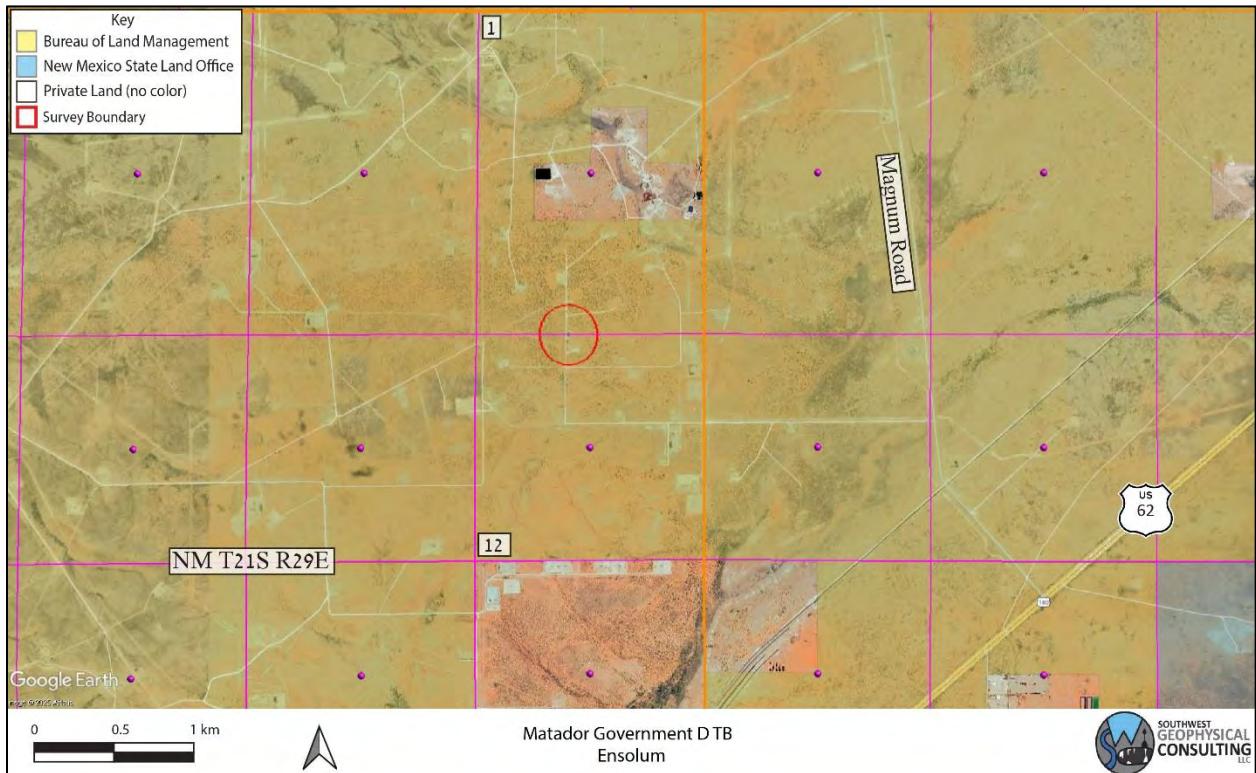


Figure 2: Land ownership and PLSS overview. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

2.2 Local Geology Summary

The site for the GDTB survey is located at an elevation of 978 meters (3,209 feet), \pm 2 meters (6.6 feet). This region is entirely underlain by the Permian Rustler Formation (Pru – not shown as it does not outcrop at the surface in this area). 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].

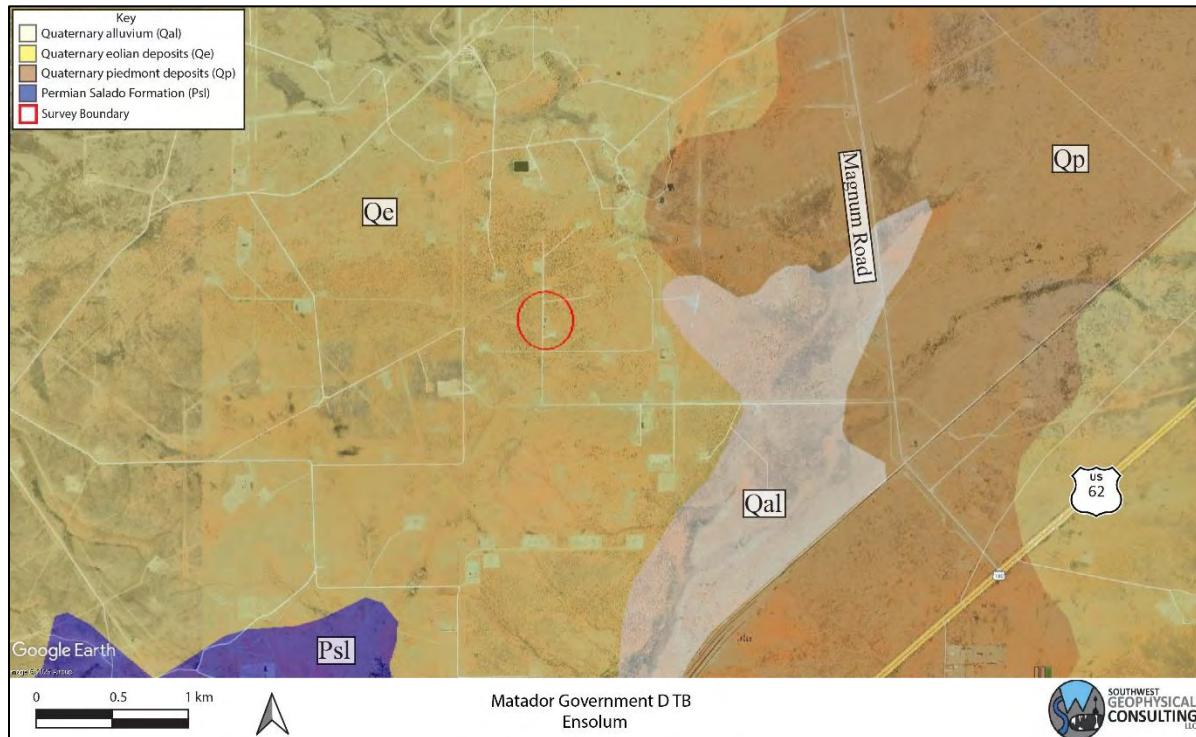


Figure 3: Geology overview. Geology map credit: The Digital Geologic Map of New Mexico in ARC/INFO Format. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

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].

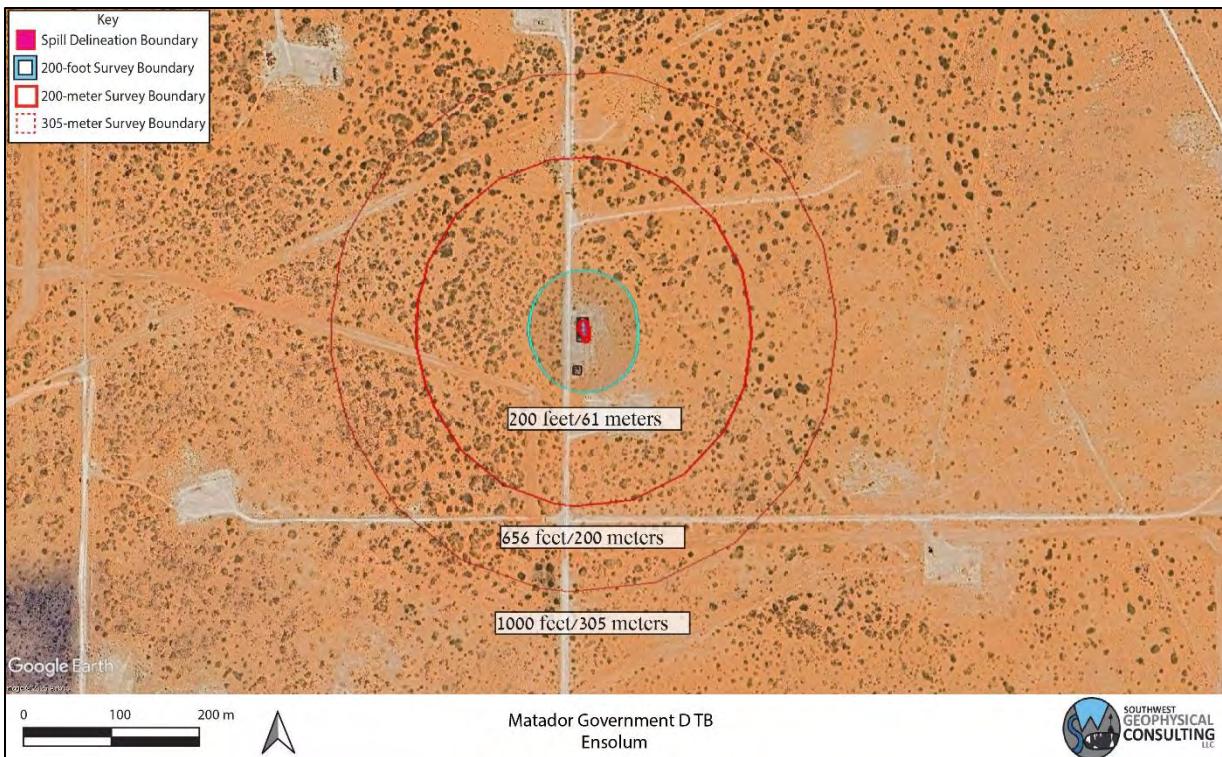


Figure 4: Surface survey overview. Background image credit: Google Earth. Image date: July 13, 2024. Datum: WGS-84.

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 24, 2025. Surface karst features may have developed after this date and will not be noted in this report. Imagery analysis was completed by Garrett Jorgensen Olague of Southwest Geophysical Consulting on July 21, 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 one resistivity line in a dipole-dipole configuration laid out south to north. This line consisted of 28 electrodes at 5-meter spacing, resulting in a 135-meter-long array (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.

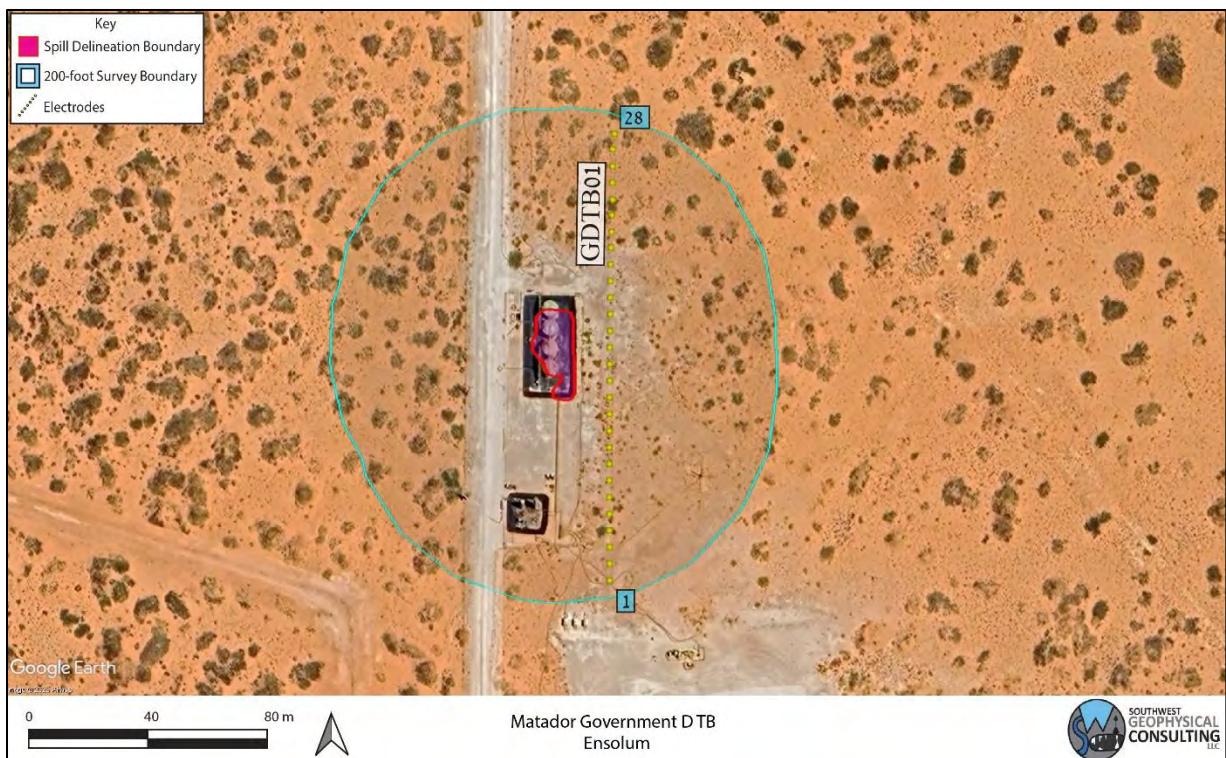


Figure 5: Geophysical survey overview. One survey line was conducted with 28 electrodes each at 5-meter spacing (yellow dots denoted with blue numbers). Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

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 GDTB_ERI_Points.xlsx and ENS-012-20250617_GDTB_Data_Files.kmz.

File Name:	Completed By:	Date:
GDTB01.kmz	Garrett Jorgensen Olague – Senior Field Geologist Britt Bommer – Field Geologist Steven Kesler – Field Geologist	7/8/2025

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 $\Omega\text{-m}$) and a max apparent resistivity set to 100,000 $\Omega\text{-m}$ (**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 k $\Omega\text{-m}$ Min Apparent Resistivity = 0.1 $\Omega\text{-m}$

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 Garrett Jorgensen Olague, Britt Bommer, and Steven Kesler on July 8, 2025.

3.0 RESULTS

3.1 Surface Karst Survey

The desk study and surface karst survey showed no surface karst features located within the 200-foot (61-meter)^[1] survey area surrounding the spill delineation boundary (Figure 6).

No springs exist within the 305-meter (1,000-foot)^[1] survey boundary (Figure 6).

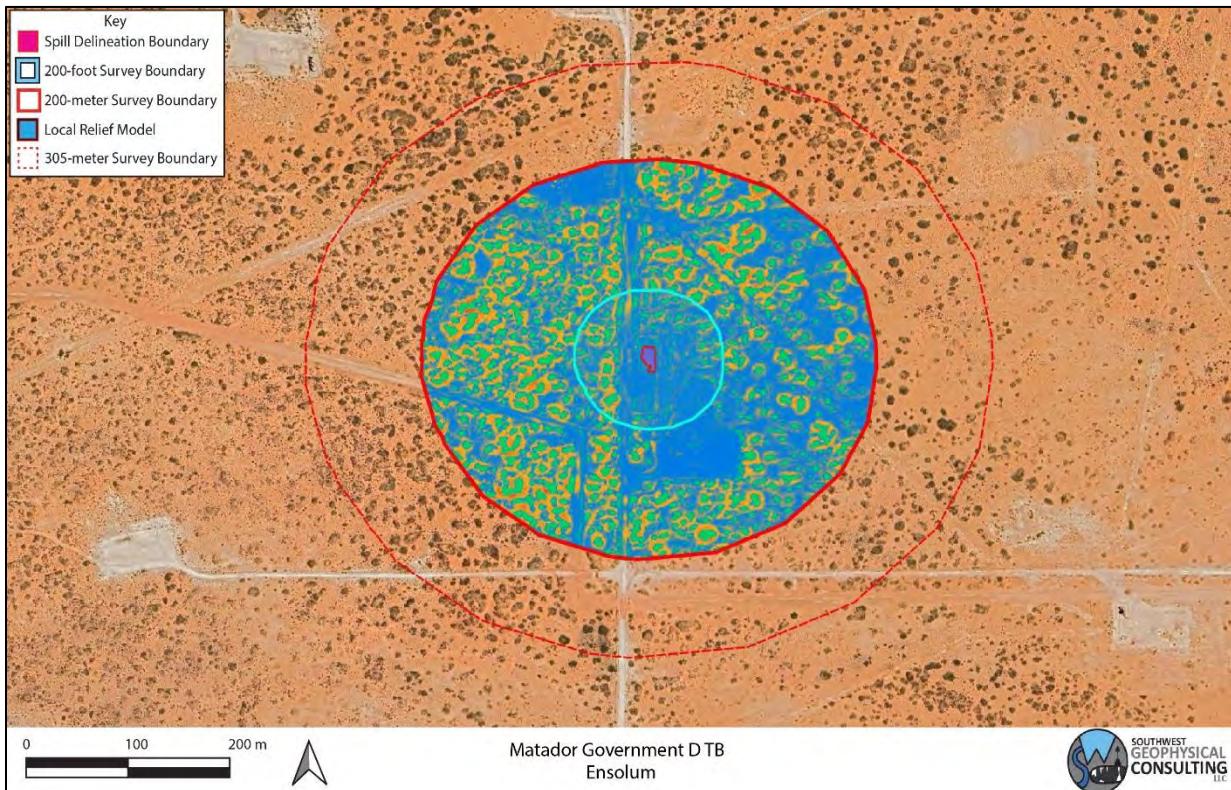


Figure 6: Surface karst survey results. Background image credit: Google Earth. Image date: July 13, 2024. Image datum: WGS-84.

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 7). 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 moderately well-layered geologic system with resistivities between 4.5 and 997 Ohm-m (Figure 7). 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.

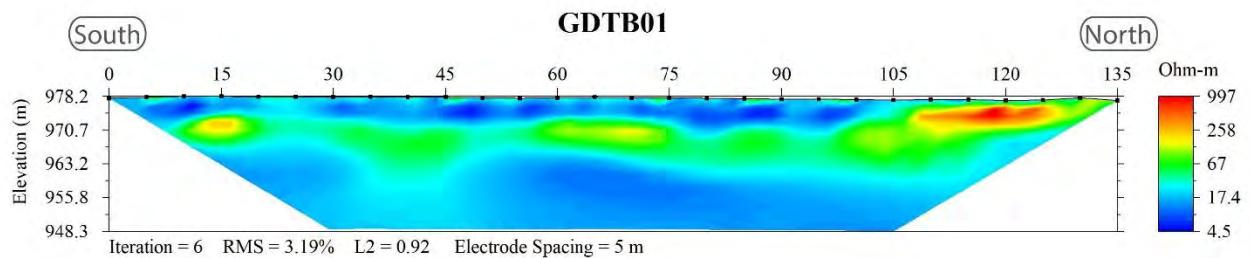


Figure 7: 2D inverted resistivity section. Red ellipse highlights high-resistivity anomaly. Reds and oranges indicate higher resistivity values. Yellows and greens are medium-resistivity values. Blues are low-resistivity values. Please note that the color scale is relative.

4.0 DISCUSSION

No surface karst features and no anomalies consistent with air-filled subsurface voids are found within the GDTB survey area. However, small solutionally enlarged voids or fractures at or near the resolution limit of the survey (2.5 – 3.0 meters) may be present. Areas of higher resistivity (reds, yellows, and greens) near the surface are interpreted as dry gypsum soils and gypsum or dolomite bedrock of the Rustler Formation^[17] (**Figure 7** and **Figure 8**). Very low-resistivity areas between 4.5 – 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 7**).

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 that require excavation below four feet in depth should be considered.

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.

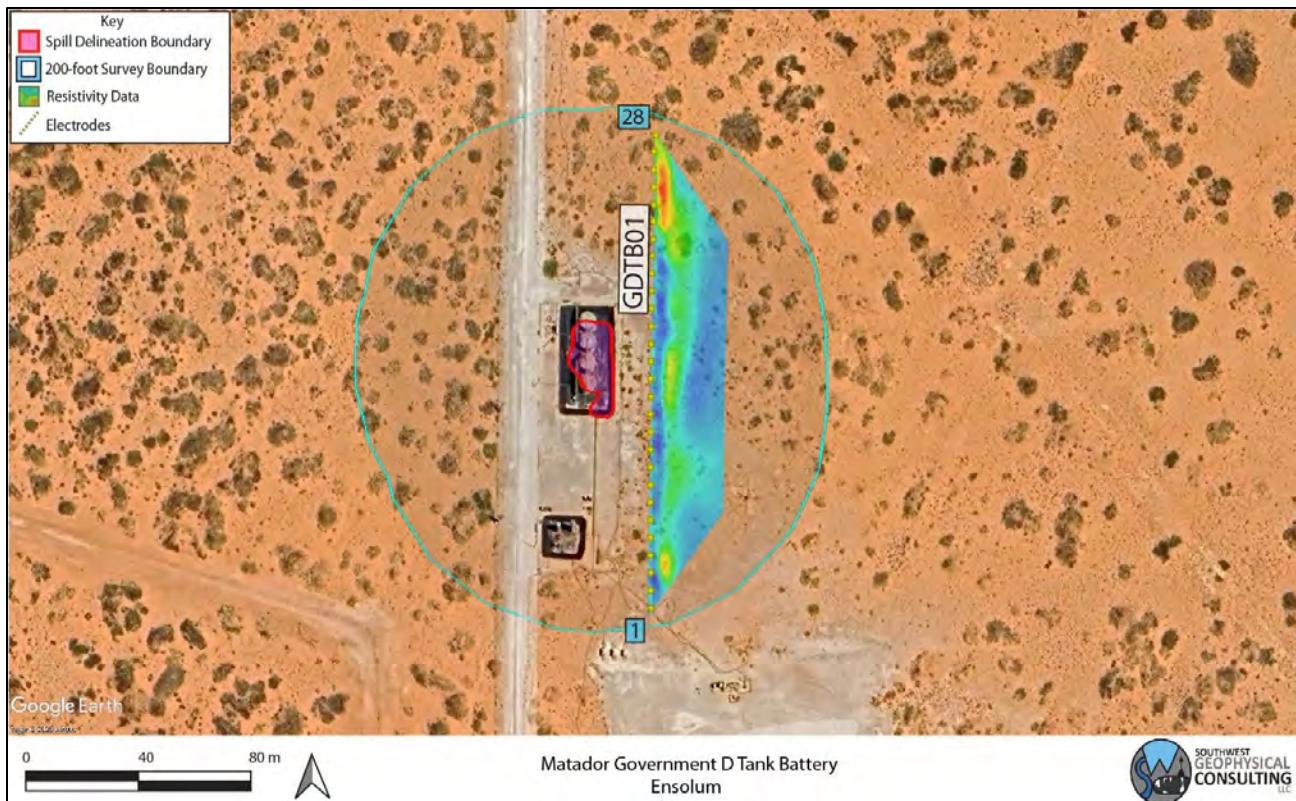


Figure 8: Data overlay. Colored trapezoid is the 2D inverted resistivity lines. Background image credit: Google Earth. Image date: July 13, 2024.

5.0 SUMMARY

- **The GDTB survey contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary.**
- **No shallow anomalies interpreted as large voids or related karst features that would present a danger to equipment operators are located within the geophysical survey area.**
- Intercepting a void during remediation is unlikely, but still possible. Small voids or solutionally enlarged fractures below the resolution limit of the survey may be encountered.
- **Well-layered stratigraphy is interpreted to exist beneath the geophysical survey line indicating stable ground in the area of the subsurface investigation.**
- When conducting any remediation activities in this area, employing a BLM-CFO approved karst monitor on site should be considered.

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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- 13 Johnson, K. S. Evaporite Karst in the United States. *Carbonates and Evaporites* **12**, 2-14 (1997).
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- 16 Whitehead, W., Bandy, M. & Decker, D. Protocol for Using UAV Photography for Rapid Assessment of Karst Features in Southeast New Mexico. *Proceedings of the 2022 Cave and Karst Management Symposium* (2022).
- 17 Hill, C. A. *Geology of the Delaware Basin, Guadalupe, Apache and Glass Mountains, New Mexico and West Texas*. Vol. 96-39 (Permian Basin Section - SEPM, 1996).

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 $\Omega\text{-m}$.
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:

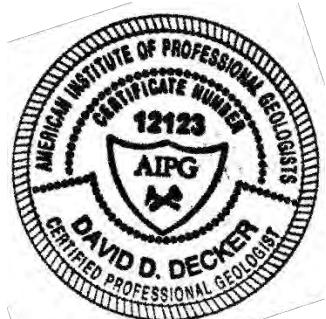
- I am currently employed as a consulting geologist in the specialty of caves and karst with an office address of 5117 Fairfax Dr. NW, Albuquerque, NM, USA, 87114.
- I graduated with a Master of Science in Applied Physics with a specialization in Sensor Systems from the Naval Post Graduate School in 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-012-20250617 entitled, “Environmental Karst Study Report, Matador Government D Tank Battery, 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 2, 2025.



David D. Decker
PhD, CPG-12123





APPENDIX C

Lithologic Soil Sampling Logs

 ENSOLUM							Sample Name: BH01	Date: 03/31/25
							Site Name: Government D TB	
							Incident Number: nAPP2507528555	
							Job Number: 03A2270091	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Oluwale Aderinto	Method: Hand auger
Coordinates: 32.502109, -104.144736							Hole Diameter: 3"	Total Depth: 2'
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFlag® Soil Analyzer System. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor for chloride included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH01	0	0	CCHE	Tan Caliche with small to large gravel, fine to coarse grain, non-cohesive, non-plastic
M		133	N	BH01	1	1		
M	ND	21	N	BH01	2	2	SP - SM	Brown, poorly graded sand with silt, non-pliable, non-plastic.
Total depth @ 2 feet bgs.								

 ENSOLUM							Sample Name: BH02	Date: 03/31/25
							Site Name: Government D TB	
							Incident Number: nAPP2507528555	
							Job Number: 03A2270091	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Oluwale Aderinto	Method: Hand auger
Coordinates: 32.501938, -104.144701							Hole Diameter: 3"	Total Depth: 2'
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFlag® Soil Analyzer System. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor for chloride included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH02	0	0	CCHE	Tan Caliche with small to large gravel, fine to coarse grain, non-cohesive, non-plastic
M		51	N	BH02	1	1		
M	ND	40	N	BH02	2	2	SP - SM	Brown, poorly graded sand with silt, non-pliable, non-plastic.
Total depth @ 2 feet bgs.								

 ENSOLUM							Sample Name: BH03	Date: 03/31/25
							Site Name: Government D TB	
							Incident Number: nAPP2507528555	
							Job Number: 03A2270091	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Oluwale Aderinto	Method: Hand auger
Coordinates: 32.501894, -104.144735							Hole Diameter: 3"	Total Depth: 2'
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFlag® Soil Analyzer System. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor for chloride included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH03	0	0		
M		126	N	BH03	1	1	CCHE	Tan Caliche with small to large gravel, fine to coarse grain, non-cohesive, non-plastic
M	ND	48	N	BH03	2	2	SP-SM	Brown, poorly graded sand with silt, non-pliable, non-plastic.
Total depth @ 2 feet bgs.								

 ENSOLUM							Sample Name: BH04	Date: 03/31/25
							Site Name: Government D TB	
							Incident Number: nAPP2507528555	
							Job Number: 03A2270091	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Oluwale Aderinto	Method: Hand auger
Coordinates: 32.502037, -104.144789							Hole Diameter: 3"	Total Depth: 2'
Comments: Field screening conducted with HACH Chloride Test Strips and PetroFlag® Soil Analyzer System. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor for chloride included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH04	0	0	CCHE	Tan Caliche with small to large gravel, fine to coarse grain, non-cohesive, non-plastic
M		53	N	BH04	1	1		
M	ND	32	N	BH04	2	2	SP - SM	Brown, poorly graded sand with silt, non-pliable, non-plastic.
Total Depth @ 2 feet bgs.								

 ENSOLUM							Sample Name: BH05	Date: 5/07/2025
LITHOLOGIC / SOIL SAMPLING LOG							Site Name: Government D	
Coordinates: 32.501782 -104.144698							Incident Number: nAPP2507528555	
Job Number: 03A2270091							Logged By: Jenna Hinkle	Method: Auger/Core Drill
Comments: Field screening conducted with HACH Chloride Test Strips PetroFlag® Soil Analyzer System for chloride and TPH, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. A 40% correction factor is included. Water was added as a cooling agent for Core Drill.							Hole Diameter: 3"	Total Depth: 19'
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N	BH05	0	0	CCHE	Tan Caliche with small to large gravel, fine to coarse grain, non-cohesive, non-plastic
D			N	BH05	1	1		
D	1,355		N	BH05	2	2		
D	1,965		N	BH05	3	3	SP-SM	Brown, poorly graded sand with silt, fine to coarse grain, non-cohesive, non-plastic.
D			N	BH05	4	4		
D	2,637		N	BH05	5	5		
D	812		N	BH05	6	6		
D	890		N	BH05	7	7		
D			N	BH05	8	8	CCHE	Caliche with small to large gravel, fine to coarse grain, non-cohesive, non-plastic
D			N	BH05	9	9		
D	739		N	BH05	10	10		
D	537		N	BH05	11	11		
D	812		N	BH05	12	12		

 ENSOLUM								Sample Name: BH05	Date: 5/07/2025
								Site Name: Government D	
								Incident Number: nAPP2507528555	
								Job Number: 03A2270091	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Jenna Hinkle	Method: Auger/Core Drill
Coordinates: 32.501782 -104.144698								Hole Diameter: 3"	Total Depth: 19'
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. Water was added as a cooling agent for Core Drill.									
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
D	739		N	BH05	13	13			
D	537		N	BH05	14	14			
D	537		N	BH05	15	15			
D	476		N	BH05	16	16	CCHE	Caliche with small to large gravel, fine to coarse grain, non-cohesive, non-plastic	
D	537		N	BH05	17	17			
D	537		N	BH05	18	18			
D	<168	22	N	BH05	19	19			
Total Depth @ 19 feet bgs.									

 ENSOLUM							Sample Name: BH06	Date: 12/16/2025
							Site Name: Government D TB	
							Incident Number: nAPP2507528555	
							Job Number: 03A2270091	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: US	Method: Hand Auger
Coordinates: 32.501749, -104.144759							Hole Diameter: 3"	Total Depth: 5'
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. 40% correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	425.6	21	N	BH06	3	3	CCHE	Caliche with small to large gravel, light brown fine to coarse grain, non-cohesive, non-plastic
D	285.6	17	N	BH06	4	4		
D	ND		N	BH06	5	5	SP-SM	Brown, poorly graded sand with silt, fine to coarse grain, non-cohesive, non-plastic.
Total Depth @ 5 feet bgs.								

 ENSOLUM							Sample Name: BH07	Date: 12/16/2025
							Site Name: Government D TB	
							Incident Number: nAPP2507528555	
							Job Number: 03A2270091	
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: US	Method: Hand Auger
Coordinates: 32.501826, -104.144687							Hole Diameter: 3"	Total Depth: 7'
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. 40% correction factors included.								
Moisture Content	Chloride (ppm)	TPH (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	285.6	20	N	BH07	5	5	CCHE	Caliche with small to large gravel, light brown fine to coarse grain, non-cohesive, non-plastic
D	285.6	18	N	BH07	6	6	SP-SM	Brown, poorly graded sand with silt, fine to coarse grain, non-cohesive, non-plastic.
D	375.2		N	BH07	7	7	SP-SC	Brown, poorly graded sand with clay, fine to coarse grain, non-cohesive, non-plastic.
Total Depth @ 7 feet bgs.								



APPENDIX D

Photographic Log



ENSOLUM

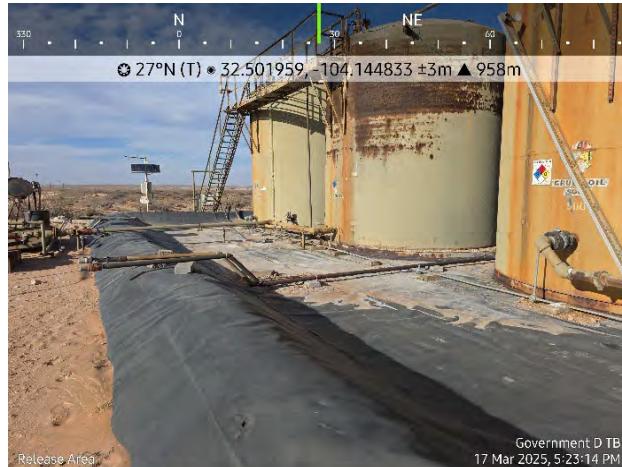
Photographic Log

Matador Production Company
Government D TB
nAPP2507528555



Photograph 1
Description: Lease Sign
View: North

Date: 3/21/2025



Photograph 2
Description: Release Area
View: Northeast

Date: 3/17/2025



Photograph 3
Description: Release Area
View: North

Date: 3/17/2025



Photograph 4
Description: Release Area
View: West

Date: 3/17/2025



ENSOLUM

Photographic Log

Matador Production Company
Government D TB
nAPP2507528555



Photograph 5
Description: Release Area
View: Southwest

Date: 3/17/2025



Photograph 6
Description: Release Area
View: East

Date: 3/17/2025



Photograph 7
Description: Liner Integrity Inspection
View: Southwest

Date: 3/21/2025



Photograph 8
Description: Liner Integrity Inspection
View: West

Date: 3/21/2025



ENSOLUM

Photographic Log

Matador Production Company
Government D TB
nAPP2507528555



Photograph 9 Date: 3/21/2025

Description: Delineation Soil Sampling (SS01)

View: Southwest



Photograph 10 Date: 3/21/2025

Description: Delineation Soil Sampling (SS04)

View: North



Photograph 11 Date: 3/31/2025

Description: Liner Integrity Inspection (Hole 18)

View: Northwest



Photograph 12 Date: 3/31/2025

Description: Liner Integrity Inspection (Hole 9)

View: West



ENSOLUM

Photographic Log

Matador Production Company
Government D TB
nAPP2507528555



Photograph 13

Date: 3/31/2025

Description: Liner Integrity Inspection (Hole 12)

View: West

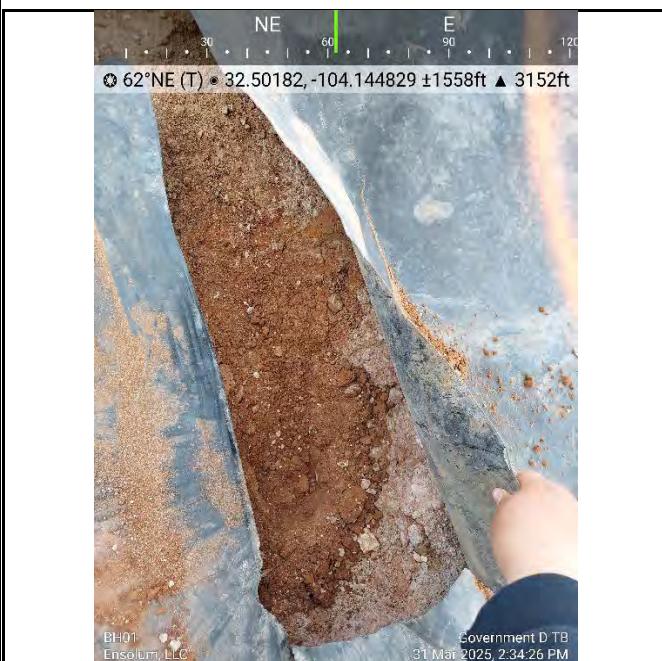


Photograph 14

Date: 3/31/2025

Description: Vertical Delineation (BH01)

View: East



Photograph 15

Date: 3/31/2025

Description: Vertical Delineation (BH01)

View: Northeast



Photograph 16

Date: 3/31/2025

Description: Vertical Delineation (BH02)

View: South



ENSOLUM

Photographic Log

Matador Production Company
Government D TB
nAPP2507528555



Photograph 17

Date: 3/31/2025

Description: Vertical Delineation (BH02)

View: South



Photograph 18

Date: 3/31/2025

Description: Vertical Delineation (BH03)

View: West



Photograph 19

Date: 3/31/2025

Description: Vertical Delineation (BH03)

View: West



Photograph 20

Date: 3/31/2025

Description: Vertical Delineation (BH04)

View: Southeast



ENSOLUM

Photographic Log

Matador Production Company
Government D TB
nAPP2507528555



Photograph 21

Date: 3/31/2025

Description: Vertical Delineation (BH04)

View: Southeast



Photograph 22

Date: 11/18/2025

Description: Excavation Activities - Daylighting

View: Northeast



Photograph 23

Date: 11/18/2025

Description: Excavation Activities - Daylighting

View: Northeast



Photograph 24

Date: 11/18/2025

Description: Excavation Activities - Daylighting

View: South



ENSOLUM

Photographic Log

Matador Production Company
Government D TB
nAPP2507528555



Photograph 25

Date: 11/18/2025

Description: Excavation Activities - Daylighting

View: North



Photograph 26

Date: 11/18/2025

Description: Excavation Activities - Abandoned Polyline

View: East



Photograph 27

Date: 11/18/2025

Description: Excavation Activities

View: East



Photograph 28

Date: 11/18/2025

Description: Excavation Activities

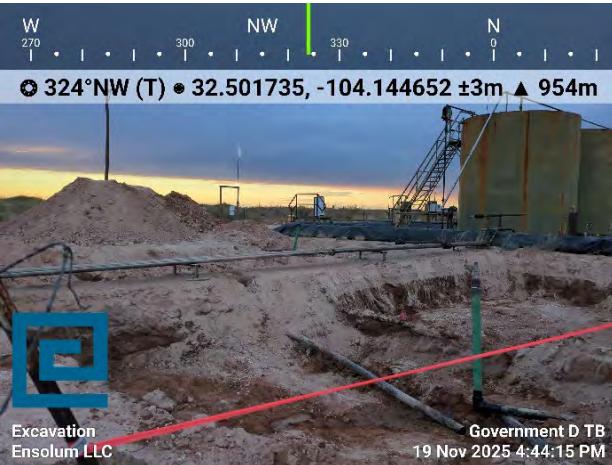
View: Northeast



ENSOLUM

Photographic Log

Matador Production Company
Government D TB
nAPP2507528555

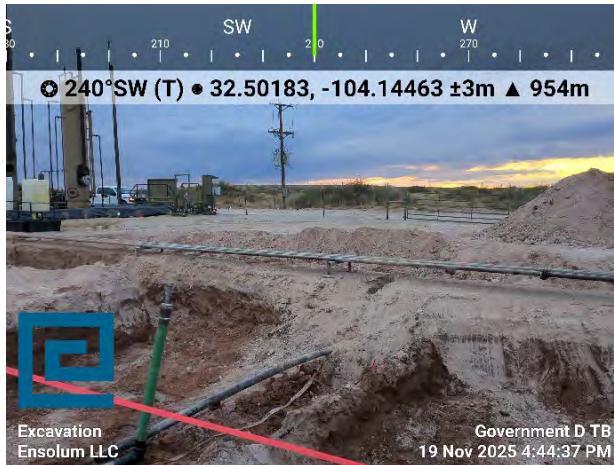


Photograph 29

Date: 11/19/2025

Description: Excavation Activities

View: Northwest



Photograph 30

Date: 11/19/2025

Description: Excavation Activities

View: Southwest



Photograph 31

Date: 11/19/2025

Description: Excavation Activities

View: North



Photograph 32

Date: 12/16/2025

Description: Delineation (BH06)

View: North



ENSOLUM

Photographic Log

Matador Production Company
Government D TB
nAPP2507528555



Photograph 33

Date: 12/16/2025

Description: Delineation (BH)&

View: North

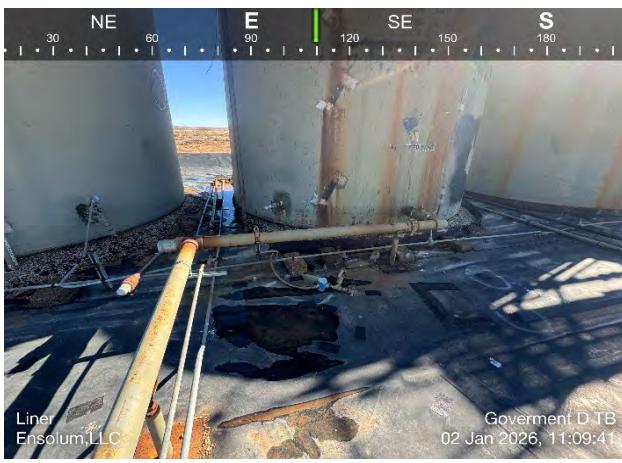


Photograph 34

Date: 1/2/2026

Description: Liner Patches

View: South



Photograph 35

Date: 1/2/2026

Description: Liner Patches (BH04)

View: East



Photograph 36

Date: 1/2/2026

Description: Liner Patches (BH01)

View: West



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Government D T13

Work Order: E503204

Job Number: 23003-0002

Received: 3/25/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/31/25

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: 3/31/25



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

Project Name: Government D T13
Workorder: E503204
Date Received: 3/25/2025 4:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/25/2025 4:00:00AM, under the Project Name: Government D T13.

The analytical test results summarized in this report with the Project Name: Government D T13 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/31/25 09:45
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E503204-01A	Soil	03/21/25	03/25/25	Glass Jar, 2 oz.
SS01-1'	E503204-02A	Soil	03/21/25	03/25/25	Glass Jar, 2 oz.
SS02-0'	E503204-03A	Soil	03/21/25	03/25/25	Glass Jar, 2 oz.
SS02-1'	E503204-04A	Soil	03/21/25	03/25/25	Glass Jar, 2 oz.
SS03-0'	E503204-05A	Soil	03/21/25	03/25/25	Glass Jar, 2 oz.
SS03-1'	E503204-06A	Soil	03/21/25	03/25/25	Glass Jar, 2 oz.
SS04-0'	E503204-07A	Soil	03/21/25	03/25/25	Glass Jar, 2 oz.
SS04-1'	E503204-08A	Soil	03/21/25	03/25/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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SS01-0'

E503204-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Benzene	ND	0.0250	1	03/25/25	03/26/25	
Ethylbenzene	ND	0.0250	1	03/25/25	03/26/25	
Toluene	ND	0.0250	1	03/25/25	03/26/25	
o-Xylene	ND	0.0250	1	03/25/25	03/26/25	
p,m-Xylene	ND	0.0500	1	03/25/25	03/26/25	
Total Xylenes	ND	0.0250	1	03/25/25	03/26/25	
Surrogate: 4-Bromochlorobenzene-PID		82.6 %	70-130		03/25/25	03/26/25
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/25/25	03/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.6 %	70-130		03/25/25	03/26/25
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2513027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/25	03/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/25	03/25/25	
Surrogate: n-Nonane		90.6 %	61-141		03/25/25	03/25/25
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2513039
Chloride	ND	20.0	1	03/25/25	03/26/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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SS01-1'

E503204-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Benzene	ND	0.0250	1	03/25/25	03/26/25	
Ethylbenzene	ND	0.0250	1	03/25/25	03/26/25	
Toluene	ND	0.0250	1	03/25/25	03/26/25	
o-Xylene	ND	0.0250	1	03/25/25	03/26/25	
p,m-Xylene	ND	0.0500	1	03/25/25	03/26/25	
Total Xylenes	ND	0.0250	1	03/25/25	03/26/25	
Surrogate: 4-Bromochlorobenzene-PID		81.9 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/25/25	03/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2513027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/25	03/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/25	03/25/25	
Surrogate: n-Nonane		92.3 %	61-141	03/25/25	03/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2513039
Chloride	ND	20.0	1	03/25/25	03/26/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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SS02-0'

E503204-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Benzene	ND	0.0250	1	03/25/25	03/26/25	
Ethylbenzene	ND	0.0250	1	03/25/25	03/26/25	
Toluene	ND	0.0250	1	03/25/25	03/26/25	
o-Xylene	ND	0.0250	1	03/25/25	03/26/25	
p,m-Xylene	ND	0.0500	1	03/25/25	03/26/25	
Total Xylenes	ND	0.0250	1	03/25/25	03/26/25	
Surrogate: 4-Bromochlorobenzene-PID		84.9 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/25/25	03/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.0 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2513027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/25	03/25/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/25	03/25/25	
Surrogate: n-Nonane		92.2 %	61-141	03/25/25	03/25/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2513039
Chloride	264	100	5	03/25/25	03/26/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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SS02-1'

E503204-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Benzene	ND	0.0250	1	03/25/25	03/26/25	
Ethylbenzene	ND	0.0250	1	03/25/25	03/26/25	
Toluene	ND	0.0250	1	03/25/25	03/26/25	
o-Xylene	ND	0.0250	1	03/25/25	03/26/25	
p,m-Xylene	ND	0.0500	1	03/25/25	03/26/25	
Total Xylenes	ND	0.0250	1	03/25/25	03/26/25	
Surrogate: 4-Bromochlorobenzene-PID		81.9 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/25/25	03/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2513027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/25	03/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/25	03/26/25	
Surrogate: n-Nonane		93.9 %	61-141	03/25/25	03/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2513039
Chloride	ND	20.0	1	03/25/25	03/26/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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SS03-0'

E503204-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Benzene	ND	0.0250	1	03/25/25	03/26/25	
Ethylbenzene	ND	0.0250	1	03/25/25	03/26/25	
Toluene	ND	0.0250	1	03/25/25	03/26/25	
o-Xylene	ND	0.0250	1	03/25/25	03/26/25	
p,m-Xylene	ND	0.0500	1	03/25/25	03/26/25	
Total Xylenes	ND	0.0250	1	03/25/25	03/26/25	
Surrogate: 4-Bromochlorobenzene-PID		82.4 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/25/25	03/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2513027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/25	03/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/25	03/26/25	
Surrogate: n-Nonane		93.3 %	61-141	03/25/25	03/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2513039
Chloride	ND	100	5	03/25/25	03/26/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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SS03-1'

E503204-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Benzene	ND	0.0250	1	03/25/25	03/26/25	
Ethylbenzene	ND	0.0250	1	03/25/25	03/26/25	
Toluene	ND	0.0250	1	03/25/25	03/26/25	
o-Xylene	ND	0.0250	1	03/25/25	03/26/25	
p,m-Xylene	ND	0.0500	1	03/25/25	03/26/25	
Total Xylenes	ND	0.0250	1	03/25/25	03/26/25	
Surrogate: 4-Bromochlorobenzene-PID		82.0 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/25/25	03/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2513027
Diesel Range Organics (C10-C28)	107	25.0	1	03/25/25	03/26/25	
Oil Range Organics (C28-C36)	220	50.0	1	03/25/25	03/26/25	
Surrogate: n-Nonane		96.8 %	61-141	03/25/25	03/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2513039
Chloride	ND	40.0	2	03/25/25	03/26/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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SS04-0'

E503204-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Benzene	ND	0.0250	1	03/25/25	03/26/25	
Ethylbenzene	ND	0.0250	1	03/25/25	03/26/25	
Toluene	ND	0.0250	1	03/25/25	03/26/25	
o-Xylene	ND	0.0250	1	03/25/25	03/26/25	
p,m-Xylene	ND	0.0500	1	03/25/25	03/26/25	
Total Xylenes	ND	0.0250	1	03/25/25	03/26/25	
Surrogate: 4-Bromochlorobenzene-PID		81.7 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/25/25	03/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2513027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/25	03/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/25	03/26/25	
Surrogate: n-Nonane		92.5 %	61-141	03/25/25	03/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2513039
Chloride	170	100	5	03/25/25	03/26/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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SS04-1'

E503204-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Benzene	ND	0.0250	1	03/25/25	03/26/25	
Ethylbenzene	ND	0.0250	1	03/25/25	03/26/25	
Toluene	ND	0.0250	1	03/25/25	03/26/25	
o-Xylene	ND	0.0250	1	03/25/25	03/26/25	
p,m-Xylene	ND	0.0500	1	03/25/25	03/26/25	
Total Xylenes	ND	0.0250	1	03/25/25	03/26/25	
Surrogate: 4-Bromochlorobenzene-PID		81.8 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2513032
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/25/25	03/26/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	03/25/25	03/26/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2513027
Diesel Range Organics (C10-C28)	ND	25.0	1	03/25/25	03/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/25/25	03/26/25	
Surrogate: n-Nonane		82.6 %	61-141	03/25/25	03/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2513039
Chloride	ND	20.0	1	03/25/25	03/26/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2513032-BLK1)

Prepared: 03/25/25 Analyzed: 03/25/25

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

6.35 8.00 79.4 70-130

LCS (2513032-BS1)

Prepared: 03/25/25 Analyzed: 03/26/25

Benzene	4.31	0.0250	5.00	86.2	70-130				
Ethylbenzene	4.15	0.0250	5.00	83.0	70-130				
Toluene	4.41	0.0250	5.00	88.2	70-130				
o-Xylene	4.19	0.0250	5.00	83.7	70-130				
p,m-Xylene	8.48	0.0500	10.0	84.8	70-130				
Total Xylenes	12.7	0.0250	15.0	84.4	70-130				

Surrogate: 4-Bromochlorobenzene-PID

6.22 8.00 77.8 70-130

Matrix Spike (2513032-MS1)

Source: E503204-03

Prepared: 03/25/25 Analyzed: 03/26/25

Benzene	5.12	0.0250	5.00	ND	102	70-130			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	70-130			
Toluene	5.04	0.0250	5.00	ND	101	70-130			
o-Xylene	4.89	0.0250	5.00	ND	97.7	70-130			
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	70-130			
Total Xylenes	14.8	0.0250	15.0	ND	98.9	70-130			

Surrogate: 4-Bromochlorobenzene-PID

6.71 8.00 83.9 70-130

Matrix Spike Dup (2513032-MSD1)

Source: E503204-03

Prepared: 03/25/25 Analyzed: 03/26/25

Benzene	5.23	0.0250	5.00	ND	105	70-130	2.11	27	
Ethylbenzene	5.01	0.0250	5.00	ND	100	70-130	2.32	26	
Toluene	5.15	0.0250	5.00	ND	103	70-130	2.22	20	
o-Xylene	5.00	0.0250	5.00	ND	100	70-130	2.29	25	
p,m-Xylene	10.2	0.0500	10.0	ND	102	70-130	2.08	23	
Total Xylenes	15.2	0.0250	15.0	ND	101	70-130	2.15	26	

Surrogate: 4-Bromochlorobenzene-PID

6.58 8.00 82.2 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D T13 23003-0002 Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2513032-BLK1)

Prepared: 03/25/25 Analyzed: 03/25/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130		

LCS (2513032-BS2)

Prepared: 03/25/25 Analyzed: 03/26/25

Gasoline Range Organics (C6-C10)	38.6	20.0	50.0		77.1	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.6	70-130		

Matrix Spike (2513032-MS2)

Source: E503204-03

Prepared: 03/25/25 Analyzed: 03/26/25

Gasoline Range Organics (C6-C10)	39.6	20.0	50.0	ND	79.1	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130		

Matrix Spike Dup (2513032-MSD2)

Source: E503204-03

Prepared: 03/25/25 Analyzed: 03/26/25

Gasoline Range Organics (C6-C10)	36.1	20.0	50.0	ND	72.2	70-130	9.18	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2513027-BLK1)

Prepared: 03/25/25 Analyzed: 03/26/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	44.5		50.0		89.1	61-141		

LCS (2513027-BS1)

Prepared: 03/25/25 Analyzed: 03/25/25

Diesel Range Organics (C10-C28)	243	25.0	250		97.3	66-144		
Surrogate: n-Nonane	46.7		50.0		93.4	61-141		

Matrix Spike (2513027-MS1)

Source: E503204-03 Prepared: 03/25/25 Analyzed: 03/25/25

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.3	56-156		
Surrogate: n-Nonane	46.7		50.0		93.4	61-141		

Matrix Spike Dup (2513027-MSD1)

Source: E503204-03 Prepared: 03/25/25 Analyzed: 03/25/25

Diesel Range Organics (C10-C28)	235	25.0	250	ND	94.1	56-156	5.45	20
Surrogate: n-Nonane	44.4		50.0		88.9	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/31/2025 9:45:07AM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2513039-BLK1)

Prepared: 03/25/25 Analyzed: 03/25/25

Chloride	ND	20.0
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LCS (2513039-BS1)

Prepared: 03/25/25 Analyzed: 03/25/25

Chloride	256	20.0	250	103	90-110
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Matrix Spike (2513039-MS1)

Source: E503201-01 Prepared: 03/25/25 Analyzed: 03/25/25

Chloride	2040	40.0	250	1820	89.7	80-120
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Matrix Spike Dup (2513039-MSD1)

Source: E503201-01 Prepared: 03/25/25 Analyzed: 03/25/25

Chloride	1980	40.0	250	1820	67.5	80-120	2.76	20	M4
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D T13 Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 03/31/25 09:45
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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.

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: Matador Production Company Project: Government D TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX	
						E503204	23030002			x		x				
Analysis and Method												EPA Program				
												SDWA	CWA	RCRA		
												Compliance	Y	or	N	
												PWSID #	Remarks			
Sample Information																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Field	Lab Number	File#	BRTR by 8015	BRTR by 8020	BRTR by 8030	BRTR by 8040	BRTR by 8050	RCRA 8 Wastes		
1005	3/21/2025	Soil	1	SS01-0			1									
1146				01-1			2									
1007				02-0			3									
1152				02-1			4									
1009				03-0			5									
1201				03-1			6									
1011				04-0			7									
1206				04-1			8									
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@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: <u>Jenna Hinkle</u>																
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										
<u>Jenna Hinkle</u>	3/24/2025	7:00	<u>Michelle Gonzales</u>	3/24/25	0700											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N										
<u>Michelle Gonzales</u>	3/24/25	1530	<u>John J.</u>	3/24/25	1630											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>										
<u>John J.</u>	3/24/25	2300	<u>Myleen R. Heller</u>	3/25/25	0400											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time											
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

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:	03/25/25 04:00	Work Order ID:	E503204
Phone:	(972) 371-5200	Date Logged In:	03/24/25 14:13	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	03/31/25 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? Yes
 Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes
Sample Cooler
 7. Was a sample cooler received? Yes
 8. If yes, was cooler received in good condition? Yes
 9. Was the sample(s) received intact, i.e., not broken? Yes
 10. Were custody/security seals present? No
 11. If yes, were custody/security seals intact? NA
 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes
 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.	Date
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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: Government D TB

Work Order: E504004

Job Number: 23003-0002

Received: 4/2/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
4/8/25

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: 4/8/25



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

Project Name: Government D TB
Workorder: E504004
Date Received: 4/2/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/2/2025 4:30:00AM, under the Project Name: Government D TB.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 04/08/25 10:51
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E504004-01A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH01-1'	E504004-02A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH01-2'	E504004-03A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH02-0'	E504004-04A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH02-1'	E504004-05A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH02-2'	E504004-06A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH03-0'	E504004-07A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH03-1'	E504004-08A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH03-2'	E504004-09A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH04-0'	E504004-10A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH04-1'	E504004-11A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
BH04-2'	E504004-12A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
SS03-0'	E504004-13A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.
SS03-1'	E504004-14A	Soil	03/31/25	04/02/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH01-0'**E504004-01**

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: BA			Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/02/25	
Toluene	ND	0.0250	1	04/02/25	04/02/25	
o-Xylene	ND	0.0250	1	04/02/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/02/25	
Surrogate: Bromofluorobenzene	104 %	70-130		04/02/25	04/02/25	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		04/02/25	04/02/25	
Surrogate: Toluene-d8	105 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/02/25	
Surrogate: Bromofluorobenzene	104 %	70-130		04/02/25	04/02/25	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		04/02/25	04/02/25	
Surrogate: Toluene-d8	105 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2514064
Diesel Range Organics (C10-C28)	72.6	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
Surrogate: n-Nonane	106 %	61-141		04/02/25	04/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK			Batch: 2514075
Chloride	4030	200	10	04/02/25	04/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH01-1'

E504004-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/02/25	
Toluene	ND	0.0250	1	04/02/25	04/02/25	
o-Xylene	ND	0.0250	1	04/02/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.2 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.2 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>104 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>102 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	24.0	20.0	1	04/02/25	04/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH01-2'

E504004-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/02/25	
Toluene	ND	0.0250	1	04/02/25	04/02/25	
o-Xylene	ND	0.0250	1	04/02/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	104 %	70-130		04/02/25	04/02/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.7 %	70-130		04/02/25	04/02/25	
<i>Surrogate: Toluene-d8</i>	105 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	104 %	70-130		04/02/25	04/02/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.7 %	70-130		04/02/25	04/02/25	
<i>Surrogate: Toluene-d8</i>	105 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	106 %	61-141		04/02/25	04/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	89.5	20.0	1	04/02/25	04/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH02-0'

E504004-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/02/25	
Toluene	ND	0.0250	1	04/02/25	04/02/25	
o-Xylene	ND	0.0250	1	04/02/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	104 %	70-130		04/02/25	04/02/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130		04/02/25	04/02/25	
<i>Surrogate: Toluene-d8</i>	105 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	104 %	70-130		04/02/25	04/02/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	101 %	70-130		04/02/25	04/02/25	
<i>Surrogate: Toluene-d8</i>	105 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	26.3	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	57.9	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	116 %	61-141		04/02/25	04/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	2760	40.0	2	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH02-1'

E504004-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/02/25	
Toluene	ND	0.0250	1	04/02/25	04/02/25	
o-Xylene	ND	0.0250	1	04/02/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.0 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.0 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>106 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	ND	20.0	1	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH02-2'

E504004-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/02/25	
Toluene	ND	0.0250	1	04/02/25	04/02/25	
o-Xylene	ND	0.0250	1	04/02/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.1 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.1 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/02/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>103 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	ND	20.0	1	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH03-0'**E504004-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/02/25	
Toluene	ND	0.0250	1	04/02/25	04/02/25	
o-Xylene	ND	0.0250	1	04/02/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	104 %	70-130		04/02/25	04/02/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.5 %	70-130		04/02/25	04/02/25	
<i>Surrogate: Toluene-d8</i>	106 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	104 %	70-130		04/02/25	04/02/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	96.5 %	70-130		04/02/25	04/02/25	
<i>Surrogate: Toluene-d8</i>	106 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	537	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	1090	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	103 %	61-141		04/02/25	04/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	5730	100	5	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH03-1'

E504004-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/02/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/02/25	
Toluene	ND	0.0250	1	04/02/25	04/02/25	
o-Xylene	ND	0.0250	1	04/02/25	04/02/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/02/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	103 %	70-130		04/02/25	04/02/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.4 %	70-130		04/02/25	04/02/25	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/02/25	
<i>Surrogate: Bromofluorobenzene</i>	103 %	70-130		04/02/25	04/02/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	97.4 %	70-130		04/02/25	04/02/25	
<i>Surrogate: Toluene-d8</i>	104 %	70-130		04/02/25	04/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	39.1	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	62.5	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	108 %	61-141		04/02/25	04/03/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	ND	40.0	2	04/02/25	04/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH03-2'

E504004-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/03/25	
Toluene	ND	0.0250	1	04/02/25	04/03/25	
o-Xylene	ND	0.0250	1	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/03/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>97.5 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>97.5 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>104 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	ND	20.0	1	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH04-0'**E504004-10**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/03/25	
Toluene	ND	0.0250	1	04/02/25	04/03/25	
o-Xylene	ND	0.0250	1	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/03/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.4 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.4 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>105 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	3140	40.0	2	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH04-1'

E504004-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/03/25	
Toluene	ND	0.0250	1	04/02/25	04/03/25	
o-Xylene	ND	0.0250	1	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/03/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.8 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>98.8 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>105 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>104 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	ND	20.0	1	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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BH04-2'

E504004-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/03/25	
Toluene	ND	0.0250	1	04/02/25	04/03/25	
o-Xylene	ND	0.0250	1	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/03/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>95.3 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>95.3 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>104 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	ND	20.0	1	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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SS03-0'

E504004-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/03/25	
Toluene	ND	0.0250	1	04/02/25	04/03/25	
o-Xylene	ND	0.0250	1	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/03/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.9 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>103 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>99.9 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>106 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>104 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	179	100	5	04/02/25	04/03/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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SS03-1'

E504004-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Benzene	ND	0.0250	1	04/02/25	04/03/25	
Ethylbenzene	ND	0.0250	1	04/02/25	04/03/25	
Toluene	ND	0.0250	1	04/02/25	04/03/25	
o-Xylene	ND	0.0250	1	04/02/25	04/03/25	
p,m-Xylene	ND	0.0500	1	04/02/25	04/03/25	
Total Xylenes	ND	0.0250	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>101 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.1 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>107 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2514063
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/02/25	04/03/25	
<i>Surrogate: Bromofluorobenzene</i>	<i>101 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>96.1 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
<i>Surrogate: Toluene-d8</i>	<i>107 %</i>	<i>70-130</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2514064
Diesel Range Organics (C10-C28)	ND	25.0	1	04/02/25	04/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/02/25	04/03/25	
<i>Surrogate: n-Nonane</i>	<i>102 %</i>	<i>61-141</i>		<i>04/02/25</i>	<i>04/03/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: AK		Batch: 2514075
Chloride	42.7	20.0	1	04/02/25	04/03/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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Volatile Organic Compounds by EPA 8260B

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Limits %	RPD %	RPD Limit	Notes
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Blank (2514063-BLK1)

Prepared: 04/02/25 Analyzed: 04/02/25

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							
<i>Surrogate: Bromofluorobenzene</i>	0.522		0.500		104	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.472		0.500		94.4	70-130			
<i>Surrogate: Toluene-d8</i>	0.529		0.500		106	70-130			

LCS (2514063-BS1)

Prepared: 04/02/25 Analyzed: 04/02/25

Benzene	2.63	0.0250	2.50		105	70-130			
Ethylbenzene	2.73	0.0250	2.50		109	70-130			
Toluene	2.76	0.0250	2.50		110	70-130			
o-Xylene	2.97	0.0250	2.50		119	70-130			
p,m-Xylene	5.89	0.0500	5.00		118	70-130			
Total Xylenes	8.86	0.0250	7.50		118	70-130			
<i>Surrogate: Bromofluorobenzene</i>	0.536		0.500		107	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.475		0.500		94.9	70-130			
<i>Surrogate: Toluene-d8</i>	0.529		0.500		106	70-130			

Matrix Spike (2514063-MS1)

Source: E504004-05

Prepared: 04/02/25 Analyzed: 04/02/25

Benzene	2.66	0.0250	2.50	ND	106	48-131			
Ethylbenzene	2.72	0.0250	2.50	ND	109	45-135			
Toluene	2.75	0.0250	2.50	ND	110	48-130			
o-Xylene	2.91	0.0250	2.50	ND	116	43-135			
p,m-Xylene	5.79	0.0500	5.00	ND	116	43-135			
Total Xylenes	8.70	0.0250	7.50	ND	116	43-135			
<i>Surrogate: Bromofluorobenzene</i>	0.524		0.500		105	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.496		0.500		99.1	70-130			
<i>Surrogate: Toluene-d8</i>	0.524		0.500		105	70-130			

Matrix Spike Dup (2514063-MSD1)

Source: E504004-05

Prepared: 04/02/25 Analyzed: 04/02/25

Benzene	2.37	0.0250	2.50	ND	94.8	48-131	11.5	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.3	45-135	10.2	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	10.7	24	
o-Xylene	2.72	0.0250	2.50	ND	109	43-135	6.70	27	
p,m-Xylene	5.35	0.0500	5.00	ND	107	43-135	7.90	27	
Total Xylenes	8.07	0.0250	7.50	ND	108	43-135	7.49	27	
<i>Surrogate: Bromofluorobenzene</i>	0.537		0.500		107	70-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	0.496		0.500		99.1	70-130			
<i>Surrogate: Toluene-d8</i>	0.522		0.500		104	70-130			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2514063-BLK1)

Prepared: 04/02/25 Analyzed: 04/02/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130		
Surrogate: Toluene-d8	0.529		0.500		106	70-130		

LCS (2514063-BS2)

Prepared: 04/02/25 Analyzed: 04/02/25

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0	103	70-130			
Surrogate: Bromofluorobenzene	0.526		0.500	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500	94.9	70-130			
Surrogate: Toluene-d8	0.536		0.500	107	70-130			

Matrix Spike (2514063-MS2)

Source: E504004-05

Prepared: 04/02/25 Analyzed: 04/02/25

Gasoline Range Organics (C6-C10)	56.5	20.0	50.0	ND	113	70-130		
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130		
Surrogate: Toluene-d8	0.533		0.500		107	70-130		

Matrix Spike Dup (2514063-MSD2)

Source: E504004-05

Prepared: 04/02/25 Analyzed: 04/02/25

Gasoline Range Organics (C6-C10)	55.0	20.0	50.0	ND	110	70-130	2.57	20
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130		
Surrogate: Toluene-d8	0.538		0.500		108	70-130		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2514064-BLK1)

Prepared: 04/02/25 Analyzed: 04/03/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	48.8		50.0		97.5	61-141		

LCS (2514064-BS1)

Prepared: 04/02/25 Analyzed: 04/03/25

Diesel Range Organics (C10-C28)	250	25.0	250		100	66-144		
Surrogate: n-Nonane	51.7		50.0		103	61-141		

Matrix Spike (2514064-MS1)

Source: E504001-01 Prepared: 04/02/25 Analyzed: 04/03/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156		
Surrogate: n-Nonane	49.7		50.0		99.3	61-141		

Matrix Spike Dup (2514064-MSD1)

Source: E504001-01 Prepared: 04/02/25 Analyzed: 04/03/25

Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	56-156	0.0221	20
Surrogate: n-Nonane	51.8		50.0		104	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 4/8/2025 10:51:31AM
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Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2514075-BLK1)

Prepared: 04/02/25 Analyzed: 04/02/25

Chloride	ND	20.0
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LCS (2514075-BS1)

Prepared: 04/02/25 Analyzed: 04/02/25

Chloride	252	20.0	250	101	90-110
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Matrix Spike (2514075-MS1)

Source: E504004-08

Prepared: 04/02/25 Analyzed: 04/02/25

Chloride	257	40.0	250	ND	103	80-120
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Matrix Spike Dup (2514075-MSD1)

Source: E504004-08

Prepared: 04/02/25 Analyzed: 04/02/25

Chloride	248	40.0	250	ND	99.2	80-120	3.59	20
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 04/08/25 10:51
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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: Matador Production Company Project: Government D TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
								E504004	23003-0002				X	X							
Analysis and Method												EPA Program									
												SDWA	CWA	RCRA							
												Compliance	Y	or	N						
												PWSID #									
Sample Information																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Field	Lab Number	Filter	GR/RO by 8021	VOC by 8560	Chrom 3000	ICED 1005 - TX	RCRA 8 Metrics	Remarks					
10:55	3/31/25	S	1	BH01-0'					1												
11:03	3/31/25	S	1	BH01-1'					2												
11:05	3/31/25	S	1	BH01-2'					3												
11:18	3/31/25	S	1	BH02-0'					4												
11:23	3/31/25	S	1	BH02-1'					5												
11:24	3/31/25	S	1	BH02-2'					6												
11:33	3/31/25	S	1	BH03-0'					7												
11:37	3/31/25	S	1	BH03-1'					8												
11:38	3/31/25	S	1	BH03-2'					9												
11:45	3/31/25	S	1	BH04-0'					10												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, jhinkle@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: <u>Israel Estrella</u> <u>Jenna Hinkle and Oluwale A.</u>																					
Relinquished by: (Signature) <u>Oluwale Adesinto</u>	Date <u>04/01/25</u>	Time <u>08:15</u>	Received by: (Signature) <u>Michelle Gonzales</u>	Date <u>4-1-25</u>	Time <u>0815</u>	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: <u>Y</u> / <u>N</u> T1 <u> </u> T2 <u> </u> T3 <u> </u> AVG Temp °C <u>4</u>															
Relinquished by: (Signature) <u>Michelle Gonzales</u>	Date <u>4-1-25</u>	Time <u>1615</u>	Received by: (Signature) <u>Isabel H.</u>	Date <u>4-1-25</u>	Time <u>1700</u>																
Relinquished by: (Signature) <u>Isabel H.</u>	Date <u>4-1-25</u>	Time <u>2245</u>	Received by: (Signature) <u>Marylyn R. Heed</u>	Date <u>4-2-25</u>	Time <u>0430</u>																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
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.																					

Chain of Custody

Envirotech Analytical Laboratory

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: 04/02/25 04:30	Work Order ID: E504004
Phone: (972) 371-5200	Date Logged In: 04/01/25 15:14	Logged In By: Noe Soto
Email: agiovengo@ensolum.com	Due Date: 04/08/25 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? Yes
 Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Sample Turn Around Time (TAT)

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

Sample Cooler

7. Was a sample cooler received? Yes
 8. If yes, was cooler received in good condition? Yes
 9. Was the sample(s) received intact, i.e., not broken? Yes
 10. Were custody/security seals present? No
 11. If yes, were custody/security seals intact? NA
 12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes
 Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling
 13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Government D TB

Work Order: E504316

Job Number: 23003-0002

Received: 5/1/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/25

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: 5/7/25



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

Project Name: Government D TB
Workorder: E504316
Date Received: 5/1/2025 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/1/2025 7:30:00AM, under the Project Name: Government D TB.

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

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

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

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

Respectfully,

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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SS06-0'	8
SS06-1'	9
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 05/07/25 15:56
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS03-2'	E504316-01A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS05-0'	E504316-02A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS05-1'	E504316-03A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS06-0'	E504316-04A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
SS06-1'	E504316-05A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
BH05-0'	E504316-06A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
BH05-1'	E504316-07A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.
BH05-3'	E504316-08A	Soil	04/29/25	05/01/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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SS03-2'

E504316-01

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	102 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	81.1 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV			Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
<i>Surrogate: n-Nonane</i>	111 %	61-141		05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2518096
Chloride	ND	20.0	1	05/01/25	05/01/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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SS05-0'

E504316-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID	106 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.5 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
Surrogate: n-Nonane	104 %	61-141		05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518096
Chloride	ND	100	5	05/01/25	05/01/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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SS05-1'

E504316-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID	106 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.4 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
Surrogate: n-Nonane	106 %	61-141		05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518096
Chloride	ND	100	5	05/01/25	05/01/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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SS06-0'

E504316-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.3 %	70-130	05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
Surrogate: n-Nonane		107 %	61-141	05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518096
Chloride	ND	40.0	2	05/01/25	05/01/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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SS06-1'

E504316-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	79.1 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
Surrogate: n-Nonane	109 %	61-141		05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518096
Chloride	ND	100	5	05/01/25	05/01/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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BH05-0'**E504316-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID	99.5 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.3 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
Surrogate: n-Nonane	109 %	61-141		05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518096
Chloride	1360	200	10	05/01/25	05/01/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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BH05-1'**E504316-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	81.4 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
Surrogate: n-Nonane	109 %	61-141		05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518096
Chloride	2660	200	10	05/01/25	05/01/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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BH05-3'**E504316-08**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Benzene	ND	0.0250	1	05/01/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/01/25	05/02/25	
Toluene	ND	0.0250	1	05/01/25	05/02/25	
o-Xylene	ND	0.0250	1	05/01/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/01/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/01/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2518087
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.6 %	70-130		05/01/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2518084
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/25	05/02/25	
Surrogate: n-Nonane	112 %	61-141		05/01/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: RAS		Batch: 2518096
Chloride	1790	40.0	2	05/01/25	05/01/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518087-BLK1)

Prepared: 05/01/25 Analyzed: 05/02/25

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

8.45 8.00 106 70-130

LCS (2518087-BS1)

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.66	0.0250	5.00	93.3	70-130				
Ethylbenzene	4.95	0.0250	5.00	99.0	70-130				
Toluene	4.83	0.0250	5.00	96.6	70-130				
o-Xylene	4.94	0.0250	5.00	98.9	70-130				
p,m-Xylene	9.60	0.0500	10.0	96.0	70-130				
Total Xylenes	14.5	0.0250	15.0	97.0	70-130				

Surrogate: 4-Bromochlorobenzene-PID

8.38 8.00 105 70-130

Matrix Spike (2518087-MS1)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.99	0.0250	5.00	ND	99.8	70-130			
Ethylbenzene	5.31	0.0250	5.00	ND	106	70-130			
Toluene	5.18	0.0250	5.00	ND	104	70-130			
o-Xylene	5.30	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.6	0.0250	15.0	ND	104	70-130			

Surrogate: 4-Bromochlorobenzene-PID

8.14 8.00 102 70-130

Matrix Spike Dup (2518087-MSD1)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Benzene	4.68	0.0250	5.00	ND	93.7	70-130	6.34	27	
Ethylbenzene	5.01	0.0250	5.00	ND	100	70-130	5.95	26	
Toluene	4.87	0.0250	5.00	ND	97.4	70-130	6.19	20	
o-Xylene	4.99	0.0250	5.00	ND	99.8	70-130	6.07	25	
p,m-Xylene	9.70	0.0500	10.0	ND	97.0	70-130	5.91	23	
Total Xylenes	14.7	0.0250	15.0	ND	98.0	70-130	5.96	26	

Surrogate: 4-Bromochlorobenzene-PID

8.17 8.00 102 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2518087-BLK1)

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.49		8.00		81.1	70-130		

LCS (2518087-BS2)

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	89.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.52		8.00	81.5	70-130			

Matrix Spike (2518087-MS2)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	94.9	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.91		8.00		86.4	70-130		

Matrix Spike Dup (2518087-MSD2)

Source: E504315-05

Prepared: 05/01/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130	2.74	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.71		8.00		83.8	70-130		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518084-BLK1)

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	52.3		50.0		105	61-141		

LCS (2518084-BS1)

Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	280	25.0	250		112	66-144		
Surrogate: n-Nonane	51.5		50.0		103	61-141		

Matrix Spike (2518084-MS1)

Source: E504316-06 Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	56-156		
Surrogate: n-Nonane	51.2		50.0		102	61-141		

Matrix Spike Dup (2518084-MSD1)

Source: E504316-06 Prepared: 05/01/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	56-156	0.717	20
Surrogate: n-Nonane	53.1		50.0		106	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 3:56:35PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518096-BLK1)

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride	ND	20.0
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LCS (2518096-BS1)

Prepared: 05/01/25 Analyzed: 05/01/25

Chloride	253	20.0	250	101	90-110
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Matrix Spike (2518096-MS1)

Source: E504316-03 Prepared: 05/01/25 Analyzed: 05/01/25

Chloride	309	100	250	ND	124	80-120		M6
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Matrix Spike Dup (2518096-MSD1)

Source: E504316-03 Prepared: 05/01/25 Analyzed: 05/01/25

Chloride	308	100	250	ND	123	80-120	0.130	20	M6
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/07/25 15:56
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M6 Matrix spike recovery has a high bias. The native sample results were below the RL, but appears to have contributed to high MS recoveries.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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

Client Information				Invoice Information				Lab Use Only				TAT				State						
Client: Matador Production Company Project Name: <u>Government D TB</u> Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX					
								<u>E504310</u>	<u>23003.002</u>				x	x								
Analysis and Method																EPA Program						
																SDWA	CWA	RCRA				
																Compliance	Y	or	N			
																PWSID #						
																Temp	Sample	Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Lab Filter	Lab DRD/DRD by 8015	GRD/GRD by 8015	OC by 8260	OC by 8024	Chloride 300.0	ACRA 8 Metals	TEEA 1005-TX	BB600C-TX	BB600C-NM	BB600C-TX	BB600C-NM	BB600C-TX	
1146	4/21/2025	Soil	1	SS03-2				1														2.4
0833				SS05-0				2														2.6
0942				SS05-1				3														2.0
1023				SS06-0				4														1.8
1039				SS06-1				5														1.5
1203				BH05-0				6														2.8
1211				BH05-1				7														2.2
1229	↓	↓	↓	BH05-3				8														2.6

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, ihinkle@ensolum.com, akone@ensolum.com, igonzales@ensolum.com, rrai@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: Sammy Trujillo

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 on ice at a temp above 0 but less than 6°C on subsequent days.	
<u>Sammy Trujillo</u>			<u>Michelle Gonzales</u>	4-30-25	1020	Lab Use Only Received on ice: <input checked="" type="checkbox"/> N	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		
<u>Michelle Gonzales</u>	4-30-25	1540	<u>Richard Govea</u>	4-30-25	1540		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		
<u>Richard Govea</u>	4-30-25	2130	<u>Carla Yma</u>	5-1-25	730		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time		

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

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/01/25 07:30	Work Order ID:	E504316
Phone:	(972) 371-5200	Date Logged In:	04/30/25 14:42	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/07/25 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? Yes
 Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

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
---	------

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: Government D TB

Work Order: E505012

Job Number: 23003-0002

Received: 5/2/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/7/25

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: 5/7/25



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

Project Name: Government D TB
Workorder: E505012
Date Received: 5/2/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/2/2025 7:00:00AM, under the Project Name: Government D TB.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 05/07/25 10:43
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS08-0'	E505012-01A	Soil	04/30/25	05/02/25	Glass Jar, 2 oz.
SS08-1'	E505012-02A	Soil	04/30/25	05/02/25	Glass Jar, 2 oz.
SS09-0'	E505012-03A	Soil	04/30/25	05/02/25	Glass Jar, 2 oz.
SS09-1'	E505012-04A	Soil	04/30/25	05/02/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 10:43:25AM
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SS08-0'

E505012-01

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2518103
Benzene	ND	0.0250	1	05/02/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/02/25	05/02/25	
Toluene	ND	0.0250	1	05/02/25	05/02/25	
o-Xylene	ND	0.0250	1	05/02/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/02/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/02/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID	83.6 %	70-130		05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2518103
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.8 %	70-130		05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2518101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/25	05/02/25	
Surrogate: n-Nonane	94.4 %	61-141		05/02/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2518107
Chloride	96.8	40.0	2	05/02/25	05/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 10:43:25AM
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SS08-1'

E505012-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2518103
Benzene	ND	0.0250	1	05/02/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/02/25	05/02/25	
Toluene	ND	0.0250	1	05/02/25	05/02/25	
o-Xylene	ND	0.0250	1	05/02/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/02/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/02/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	84.9 %	70-130		05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2518103
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	95.7 %	70-130		05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2518101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/25	05/02/25	
<i>Surrogate: n-Nonane</i>	92.4 %	61-141		05/02/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2518107
Chloride	246	20.0	1	05/02/25	05/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 10:43:25AM
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SS09-0'

E505012-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2518103
Benzene	ND	0.0250	1	05/02/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/02/25	05/02/25	
Toluene	ND	0.0250	1	05/02/25	05/02/25	
o-Xylene	ND	0.0250	1	05/02/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/02/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/02/25	05/02/25	
Surrogate: 4-Bromochlorobenzene-PID	85.9 %	70-130		05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2518103
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/25	05/02/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2518101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/25	05/02/25	
Surrogate: n-Nonane	94.4 %	61-141		05/02/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2518107
Chloride	153	40.0	2	05/02/25	05/02/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 10:43:25AM
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SS09-1'

E505012-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2518103
Benzene	ND	0.0250	1	05/02/25	05/02/25	
Ethylbenzene	ND	0.0250	1	05/02/25	05/02/25	
Toluene	ND	0.0250	1	05/02/25	05/02/25	
o-Xylene	ND	0.0250	1	05/02/25	05/02/25	
p,m-Xylene	ND	0.0500	1	05/02/25	05/02/25	
Total Xylenes	ND	0.0250	1	05/02/25	05/02/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	84.9 %	70-130		05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2518103
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/02/25	05/02/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	94.6 %	70-130		05/02/25	05/02/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2518101
Diesel Range Organics (C10-C28)	ND	25.0	1	05/02/25	05/02/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/02/25	05/02/25	
<i>Surrogate: n-Nonane</i>	92.7 %	61-141		05/02/25	05/02/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2518107
Chloride	344	20.0	1	05/02/25	05/02/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 10:43:25AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518103-BLK1)

Prepared: 05/02/25 Analyzed: 05/02/25

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

6.73 8.00 84.1 70-130

LCS (2518103-BS1)

Prepared: 05/02/25 Analyzed: 05/02/25

Benzene	4.79	0.0250	5.00	95.8	70-130				
Ethylbenzene	5.39	0.0250	5.00	108	70-130				
Toluene	5.22	0.0250	5.00	104	70-130				
o-Xylene	5.37	0.0250	5.00	107	70-130				
p,m-Xylene	10.9	0.0500	10.0	109	70-130				
Total Xylenes	16.3	0.0250	15.0	108	70-130				

Surrogate: 4-Bromochlorobenzene-PID

6.84 8.00 85.4 70-130

Matrix Spike (2518103-MS1)

Source: E505007-02

Prepared: 05/02/25 Analyzed: 05/02/25

Benzene	4.64	0.0250	5.00	ND	92.8	70-130			
Ethylbenzene	5.18	0.0250	5.00	ND	104	70-130			
Toluene	5.02	0.0250	5.00	ND	100	70-130			
o-Xylene	5.16	0.0250	5.00	ND	103	70-130			
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130			
Total Xylenes	15.7	0.0250	15.0	ND	104	70-130			

Surrogate: 4-Bromochlorobenzene-PID

6.88 8.00 86.1 70-130

Matrix Spike Dup (2518103-MSD1)

Source: E505007-02

Prepared: 05/02/25 Analyzed: 05/02/25

Benzene	4.65	0.0250	5.00	ND	92.9	70-130	0.170	27	
Ethylbenzene	5.19	0.0250	5.00	ND	104	70-130	0.0858	26	
Toluene	5.02	0.0250	5.00	ND	100	70-130	0.124	20	
o-Xylene	5.17	0.0250	5.00	ND	103	70-130	0.250	25	
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130	0.252	23	
Total Xylenes	15.7	0.0250	15.0	ND	104	70-130	0.00	26	

Surrogate: 4-Bromochlorobenzene-PID

6.72 8.00 84.0 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 5/7/2025 10:43:25AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD	RPD Limit	Notes
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Blank (2518103-BLK1)

Prepared: 05/02/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.2	70-130			

LCS (2518103-BS2)

Prepared: 05/02/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2518103-MS2)

Source: E505007-02

Prepared: 05/02/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2518103-MSD2)

Source: E505007-02

Prepared: 05/02/25 Analyzed: 05/02/25

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.3	70-130	9.00	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 5/7/2025 10:43:25AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2518101-BLK1)

Prepared: 05/02/25 Analyzed: 05/02/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	46.3		50.0		92.6	61-141		

LCS (2518101-BS1)

Prepared: 05/02/25 Analyzed: 05/02/25

Diesel Range Organics (C10-C28)	249	25.0	250	99.6	66-144			
Surrogate: n-Nonane	47.1		50.0	94.2	61-141			

Matrix Spike (2518101-MS1)

Source: E505013-03

Prepared: 05/02/25 Analyzed: 05/02/25

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156		
Surrogate: n-Nonane	46.6		50.0		93.2	61-141		

Matrix Spike Dup (2518101-MSD1)

Source: E505013-03

Prepared: 05/02/25 Analyzed: 05/02/25

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	56-156	0.496	20
Surrogate: n-Nonane	45.4		50.0		90.9	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/7/2025 10:43:25AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518107-BLK1)

Prepared: 05/02/25 Analyzed: 05/02/25

Chloride	ND	20.0
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LCS (2518107-BS1)

Prepared: 05/02/25 Analyzed: 05/02/25

Chloride	255	20.0	250	102	90-110
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Matrix Spike (2518107-MS1)

Source: E505007-01 Prepared: 05/02/25 Analyzed: 05/02/25

Chloride	309	20.0	250	74.1	94.1	80-120
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Matrix Spike Dup (2518107-MSD1)

Source: E505007-01 Prepared: 05/02/25 Analyzed: 05/02/25

Chloride	331	20.0	250	74.1	103	80-120	6.76	20
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/07/25 10:43
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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.

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, rrai@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: Jenna Hinckle

Relinquished by: (Signature) <i>Jenna Hinkley</i>	Date 5-1-25	Time 1630	Received by: (Signature) <i>Michelle Ganguly</i>	Date 5-1-25	Time 1100	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: <input checked="" type="checkbox"/> N
Relinquished by: (Signature) <i>Michelle Ganguly</i>	Date 5-1-25	Time 1630	Received by: (Signature) <i>Jenna Hinkley</i>	Date 5-1-25	Time 1630	
Relinquished by: (Signature) <i>Jenna Hinkley</i>	Date 5-1-25	Time 2315	Received by: (Signature) <i>Carissa Mar</i>	Date 5-2-25	Time 700	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

Envirotech Analytical Laboratory

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.
 Phone: (972) 371-5200
 Email: agiovengo@ensolum.com

Date Received: 05/02/25 07:00
 Date Logged In: 05/01/25 15:35
 Due Date: 05/08/25 17:00 (4 day TAT)

Work Order ID: E505012
 Logged In By: Caitlin Mars

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

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

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 InstructionComments/Resolution

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: Government D TB

Work Order: E505108

Job Number: 23003-0002

Received: 5/9/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/15/25

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: 5/15/25



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

Project Name: Government D TB
Workorder: E505108
Date Received: 5/9/2025 7:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/9/2025 7:00:00AM, under the Project Name: Government D TB.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 05/15/25 10:57
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS07-0'	E505108-01A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
SS07-1'	E505108-02A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
BH05-5'	E505108-03A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
BH05-7'	E505108-04A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
BH05-9'	E505108-05A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
BH05-11'	E505108-06A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
BH05-13'	E505108-07A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
BH05-15'	E505108-08A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
BH05-17'	E505108-09A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.
BH05-19'	E505108-10A	Soil	05/07/25	05/09/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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SS07-0'

E505108-01

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA			Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM			Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/13/25	
Surrogate: n-Nonane	103 %	61-141		05/09/25	05/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: IY			Batch: 2520051
Chloride	ND	20.0	1	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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SS07-1'

E505108-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	98.6 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/13/25	
Surrogate: n-Nonane	103 %	61-141		05/09/25	05/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	185	100	5	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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BH05-5'**E505108-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/13/25	
Surrogate: n-Nonane	103 %	61-141		05/09/25	05/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	2310	40.0	2	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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BH05-7'**E505108-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/13/25	
Surrogate: n-Nonane	102 %	61-141		05/09/25	05/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	812	20.0	1	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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BH05-9'**E505108-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>100 %</i>	<i>70-130</i>		<i>05/09/25</i>	<i>05/13/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>92.1 %</i>	<i>70-130</i>		<i>05/09/25</i>	<i>05/13/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/13/25	
<i>Surrogate: n-Nonane</i>	<i>102 %</i>	<i>61-141</i>		<i>05/09/25</i>	<i>05/13/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	659	20.0	1	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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BH05-11'

E505108-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	99.9 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/13/25	
Surrogate: n-Nonane	103 %	61-141		05/09/25	05/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	642	20.0	1	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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BH05-13'

E505108-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	99.3 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/14/25	
Surrogate: n-Nonane	108 %	61-141		05/09/25	05/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	658	20.0	1	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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BH05-15'

E505108-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/14/25	
Surrogate: n-Nonane	105 %	61-141		05/09/25	05/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	356	20.0	1	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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BH05-17'

E505108-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.4 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/14/25	
Surrogate: n-Nonane	107 %	61-141		05/09/25	05/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	367	20.0	1	05/13/25	05/13/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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BH05-19'

E505108-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Benzene	ND	0.0250	1	05/09/25	05/13/25	
Ethylbenzene	ND	0.0250	1	05/09/25	05/13/25	
Toluene	ND	0.0250	1	05/09/25	05/13/25	
o-Xylene	ND	0.0250	1	05/09/25	05/13/25	
p,m-Xylene	ND	0.0500	1	05/09/25	05/13/25	
Total Xylenes	ND	0.0250	1	05/09/25	05/13/25	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2519139
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/25	05/13/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.2 %	70-130		05/09/25	05/13/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2519163
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/25	05/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/25	05/14/25	
Surrogate: n-Nonane	106 %	61-141		05/09/25	05/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2520051
Chloride	122	20.0	1	05/13/25	05/13/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2519139-BLK1)

Prepared: 05/09/25 Analyzed: 05/13/25

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

7.97 8.00 99.7 70-130

LCS (2519139-BS1)

Prepared: 05/09/25 Analyzed: 05/13/25

Benzene	5.48	0.0250	5.00	110	70-130				
Ethylbenzene	5.35	0.0250	5.00	107	70-130				
Toluene	5.44	0.0250	5.00	109	70-130				
o-Xylene	5.25	0.0250	5.00	105	70-130				
p,m-Xylene	10.8	0.0500	10.0	108	70-130				
Total Xylenes	16.0	0.0250	15.0	107	70-130				

Surrogate: 4-Bromochlorobenzene-PID

7.82 8.00 97.8 70-130

Matrix Spike (2519139-MS1)

Source: E505108-02

Prepared: 05/09/25 Analyzed: 05/13/25

Benzene	5.22	0.0250	5.00	ND	104	70-130			
Ethylbenzene	5.10	0.0250	5.00	ND	102	70-130			
Toluene	5.17	0.0250	5.00	ND	103	70-130			
o-Xylene	4.99	0.0250	5.00	ND	99.7	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.2	0.0250	15.0	ND	102	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.88 8.00 98.6 70-130

Matrix Spike Dup (2519139-MSD1)

Source: E505108-02

Prepared: 05/09/25 Analyzed: 05/13/25

Benzene	5.35	0.0250	5.00	ND	107	70-130	2.49	27	
Ethylbenzene	5.25	0.0250	5.00	ND	105	70-130	2.97	26	
Toluene	5.31	0.0250	5.00	ND	106	70-130	2.62	20	
o-Xylene	5.16	0.0250	5.00	ND	103	70-130	3.36	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	3.00	23	
Total Xylenes	15.7	0.0250	15.0	ND	105	70-130	3.12	26	

Surrogate: 4-Bromochlorobenzene-PID

7.96 8.00 99.4 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD	RPD Limit	Notes
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Blank (2519139-BLK1)

Prepared: 05/09/25 Analyzed: 05/13/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

LCS (2519139-BS2)

Prepared: 05/09/25 Analyzed: 05/13/25

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	91.4	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00	94.2	70-130				

Matrix Spike (2519139-MS2)

Source: E505108-02

Prepared: 05/09/25 Analyzed: 05/13/25

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.54		8.00		94.3	70-130			

Matrix Spike Dup (2519139-MSD2)

Source: E505108-02

Prepared: 05/09/25 Analyzed: 05/13/25

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130	5.25	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2519163-BLK1)

Prepared: 05/09/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	51.1		50.0		102	61-141		

LCS (2519163-BS1)

Prepared: 05/09/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	284	25.0	250	114	66-144			
Surrogate: n-Nonane	51.8		50.0	104	61-141			

Matrix Spike (2519163-MS1)

Source: E505106-01 Prepared: 05/09/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	375	25.0	250	70.7	122	56-156		
Surrogate: n-Nonane	51.2		50.0		102	61-141		

Matrix Spike Dup (2519163-MSD1)

Source: E505106-01 Prepared: 05/09/25 Analyzed: 05/13/25

Diesel Range Organics (C10-C28)	357	25.0	250	70.7	114	56-156	4.99	20
Surrogate: n-Nonane	51.7		50.0		103	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/15/2025 10:57:38AM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2520051-BLK1)

Prepared: 05/13/25 Analyzed: 05/13/25

Chloride	ND	20.0
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LCS (2520051-BS1)

Prepared: 05/13/25 Analyzed: 05/13/25

Chloride	255	20.0	250	102	90-110
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Matrix Spike (2520051-MS1)

Source: E505108-08 Prepared: 05/13/25 Analyzed: 05/13/25

Chloride	609	20.0	250	356	101	80-120
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Matrix Spike Dup (2520051-MSD1)

Source: E505108-08 Prepared: 05/13/25 Analyzed: 05/13/25

Chloride	612	20.0	250	356	102	80-120	0.412	20
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/15/25 10:57
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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

Client Information				Invoice Information			Lab Use Only			TAT			State								
Client: Matador Production Company Project Name: Government DFB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:			Lab WO# E505108		Job Number 23003.0002		1D	2D	3D	Std	NM x	CO	UT	TX			
Analysis and Method												EPA Program									
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEx by 8021	VOC by 8260	Chloride 300.0	TCCQ 1005 - TX	RCRA 8 Metals	EDDOC - NM	EDDOC - TX	SDWA	CWA	RCRA	
1628	5/7/2025	Soil	1	SS07-0'				1										Compliance	Y	or	N
1633			1	SS 07-1'				2										PWSID #			
1010				BH05-5'				3										Sample Temp		Remarks	
1134				05-7'				4													
1205				05-9'				5													
1241				05-11'				6													
1328				05-13'				7													
1405				05-15'				8													
1436				05-17'				9													
1514				05-19'				10													
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, rrai@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: <u>Jenna Hinkle</u>																					
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 on ice at a temperature above 0 but less than 6°C on subsequent days.												
<u>Jenna Hinkle</u>			<u>Michelle Gonzales</u>			5-8-25		0711													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)			Date		Time													
<u>Michelle Gonzales</u>	5-8-25	1530	<u>Jill</u>			5-8-25		1530													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)			Date		Time													
<u>Jill</u>	5-8-25	2130	<u>Caitlynn Marr</u>			5-9-25		700													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)			Date		Time													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)			Date		Time													
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

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.
 Phone: (972) 371-5200
 Email: agiovengo@ensolum.com

Date Received: 05/09/25 07:00
 Date Logged In: 05/08/25 14:45
 Due Date: 05/15/25 17:00 (4 day TAT)

Work Order ID: E505108
 Logged In By: Noe Soto

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? Yes

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

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? Yes

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

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: Government D TB

Work Order: E512169

Job Number: 23003-0002

Received: 12/18/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/23/25

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: 12/23/25



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

Project Name: Government D TB
Workorder: E512169
Date Received: 12/18/2025 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/18/2025 6:00:00AM, under the Project Name: Government D TB.

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

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

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

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

Respectfully,

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

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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/23/25 13:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06-3'	E512169-01A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.
BH06-4'	E512169-02A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.
BH06-5'	E512169-03A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.
BH07-5'	E512169-04A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.
BH07-6'	E512169-05A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.
BH07-7'	E512169-06A	Soil	12/16/25	12/18/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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BH06-3'**E512169-01**

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: MB			Batch: 2551096
Benzene	ND	0.0250	1	12/18/25	12/19/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/19/25	
Toluene	ND	0.0250	1	12/18/25	12/19/25	
o-Xylene	ND	0.0250	1	12/18/25	12/19/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/19/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/19/25	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		12/18/25	12/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: MB			Batch: 2551096
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/19/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		12/18/25	12/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH			Batch: 2551113
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/18/25	
Surrogate: n-Nonane	98.5 %	61-141		12/18/25	12/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT			Batch: 2551134
Chloride	322	20.0	1	12/19/25	12/19/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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BH06-4'**E512169-02**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Benzene	ND	0.0250	1	12/18/25	12/19/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/19/25	
Toluene	ND	0.0250	1	12/18/25	12/19/25	
o-Xylene	ND	0.0250	1	12/18/25	12/19/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/19/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>100 %</i>	<i>70-130</i>		<i>12/18/25</i>	<i>12/19/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>107 %</i>	<i>70-130</i>		<i>12/18/25</i>	<i>12/19/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2551113
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/18/25	
<i>Surrogate: n-Nonane</i>	<i>99.4 %</i>	<i>61-141</i>		<i>12/18/25</i>	<i>12/18/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2551134
Chloride	308	20.0	1	12/19/25	12/19/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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BH06-5'**E512169-03**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Benzene	ND	0.0250	1	12/18/25	12/19/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/19/25	
Toluene	ND	0.0250	1	12/18/25	12/19/25	
o-Xylene	ND	0.0250	1	12/18/25	12/19/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/19/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>102 %</i>	<i>70-130</i>		<i>12/18/25</i>	<i>12/19/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>106 %</i>	<i>70-130</i>		<i>12/18/25</i>	<i>12/19/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2551113
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/18/25	
<i>Surrogate: n-Nonane</i>	<i>96.4 %</i>	<i>61-141</i>		<i>12/18/25</i>	<i>12/18/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2551134
Chloride	74.6	20.0	1	12/19/25	12/19/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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BH07-5'**E512169-04**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Benzene	ND	0.0250	1	12/18/25	12/19/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/19/25	
Toluene	ND	0.0250	1	12/18/25	12/19/25	
o-Xylene	ND	0.0250	1	12/18/25	12/19/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/19/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/19/25	
Surrogate: 4-Bromochlorobenzene-PID	99.6 %	70-130		12/18/25	12/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/19/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		12/18/25	12/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2551113
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/19/25	
Surrogate: n-Nonane	99.5 %	61-141		12/18/25	12/19/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2551134
Chloride	278	20.0	1	12/19/25	12/19/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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BH07-6'**E512169-05**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Benzene	ND	0.0250	1	12/18/25	12/19/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/19/25	
Toluene	ND	0.0250	1	12/18/25	12/19/25	
o-Xylene	ND	0.0250	1	12/18/25	12/19/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/19/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/19/25	
Surrogate: 4-Bromochlorobenzene-PID		100 %	70-130		12/18/25	12/19/25
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/19/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		109 %	70-130		12/18/25	12/19/25
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2551113
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/19/25	
Surrogate: n-Nonane		99.8 %	61-141		12/18/25	12/19/25
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2551134
Chloride	260	20.0	1		12/19/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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BH07-7'**E512169-06**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Benzene	ND	0.0250	1	12/18/25	12/19/25	
Ethylbenzene	ND	0.0250	1	12/18/25	12/19/25	
Toluene	ND	0.0250	1	12/18/25	12/19/25	
o-Xylene	ND	0.0250	1	12/18/25	12/19/25	
p,m-Xylene	ND	0.0500	1	12/18/25	12/19/25	
Total Xylenes	ND	0.0250	1	12/18/25	12/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>101 %</i>	<i>70-130</i>		<i>12/18/25</i>	<i>12/19/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: MB		Batch: 2551096
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/18/25	12/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>108 %</i>	<i>70-130</i>		<i>12/18/25</i>	<i>12/19/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2551113
Diesel Range Organics (C10-C28)	ND	25.0	1	12/18/25	12/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	12/18/25	12/19/25	
<i>Surrogate: n-Nonane</i>	<i>113 %</i>	<i>61-141</i>		<i>12/18/25</i>	<i>12/19/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2551134
Chloride	339	20.0	1	12/19/25	12/19/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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Volatile Organics by EPA 8021B

Analyst: MB

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2551096-BLK1)

Prepared: 12/18/25 Analyzed: 12/20/25

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

7.78 8.00 97.3 70-130

LCS (2551096-BS1)

Prepared: 12/18/25 Analyzed: 12/20/25

Benzene	4.54	0.0250	5.00	90.8	70-130				
Ethylbenzene	4.26	0.0250	5.00	85.2	70-130				
Toluene	4.46	0.0250	5.00	89.2	70-130				
o-Xylene	4.29	0.0250	5.00	85.9	70-130				
p,m-Xylene	8.71	0.0500	10.0	87.1	70-130				
Total Xylenes	13.0	0.0250	15.0	86.7	70-130				

Surrogate: 4-Bromochlorobenzene-PID

8.00 8.00 100 70-130

Matrix Spike (2551096-MS1)

Source: E512167-01

Prepared: 12/18/25 Analyzed: 12/20/25

Benzene	4.91	0.0250	5.00	ND	98.2	70-130			
Ethylbenzene	4.60	0.0250	5.00	ND	92.1	70-130			
Toluene	4.82	0.0250	5.00	ND	96.4	70-130			
o-Xylene	4.65	0.0250	5.00	ND	92.9	70-130			
p,m-Xylene	9.40	0.0500	10.0	ND	94.0	70-130			
Total Xylenes	14.1	0.0250	15.0	ND	93.7	70-130			

Surrogate: 4-Bromochlorobenzene-PID

7.85 8.00 98.2 70-130

Matrix Spike Dup (2551096-MSD1)

Source: E512167-01

Prepared: 12/18/25 Analyzed: 12/20/25

Benzene	4.96	0.0250	5.00	ND	99.1	70-130	0.927	27	
Ethylbenzene	4.65	0.0250	5.00	ND	93.0	70-130	1.03	26	
Toluene	4.86	0.0250	5.00	ND	97.2	70-130	0.916	20	
o-Xylene	4.69	0.0250	5.00	ND	93.8	70-130	0.938	25	
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	70-130	0.948	23	
Total Xylenes	14.2	0.0250	15.0	ND	94.6	70-130	0.945	26	

Surrogate: 4-Bromochlorobenzene-PID

7.77 8.00 97.1 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: MB

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2551096-BLK1)

Prepared: 12/18/25 Analyzed: 12/20/25

Gasoline Range Organics (C6-C10)	ND	20.0						
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.93		8.00		112	70-130		

LCS (2551096-BS2)

Prepared: 12/18/25 Analyzed: 12/20/25

Gasoline Range Organics (C6-C10)	39.4	20.0	50.0	78.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.06		8.00	113	70-130			

Matrix Spike (2551096-MS2)

Source: E512167-01

Prepared: 12/18/25 Analyzed: 12/20/25

Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.0	70-130		
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.13		8.00	114	70-130			

Matrix Spike Dup (2551096-MSD2)

Source: E512167-01

Prepared: 12/18/25 Analyzed: 12/20/25

Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	96.1	70-130	6.55	20
Surrogate: 1-Chloro-4-fluorobenzene-FID	9.05		8.00	113	70-130			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2551113-BLK1)

Prepared: 12/18/25 Analyzed: 12/18/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	46.4		50.0		92.9	61-141		

LCS (2551113-BS1)

Prepared: 12/18/25 Analyzed: 12/18/25

Diesel Range Organics (C10-C28)	264	25.0	250		106	66-144		
Surrogate: n-Nonane	48.4		50.0		96.8	61-141		

Matrix Spike (2551113-MS1)

Source: E512170-07 Prepared: 12/18/25 Analyzed: 12/18/25

Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156		
Surrogate: n-Nonane	47.3		50.0		94.6	61-141		

Matrix Spike Dup (2551113-MSD1)

Source: E512170-07 Prepared: 12/18/25 Analyzed: 12/18/25

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	56-156	4.79	20
Surrogate: n-Nonane	49.5		50.0		99.0	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/2025 1:28:14PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2551134-BLK1)

Prepared: 12/19/25 Analyzed: 12/19/25

Chloride	ND	20.0							
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LCS (2551134-BS1)

Prepared: 12/19/25 Analyzed: 12/19/25

Chloride	259	20.0	250	104	90-110				
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Matrix Spike (2551134-MS1)

Source: E512169-04

Prepared: 12/19/25 Analyzed: 12/19/25

Chloride	546	20.0	250	278	107	80-120			
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Matrix Spike Dup (2551134-MSD1)

Source: E512169-04

Prepared: 12/19/25 Analyzed: 12/19/25

Chloride	531	20.0	250	278	101	80-120	2.71	20	
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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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/23/25 13:28
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador				Company: Ensolum LLC				Lab WO# E512109		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project Name: Government D TB				Address: 3122 National Parks Hwy											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:															
Sample Information																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	DR/DO/DO by 8015	GR/DO/DO by 8015	TE/DO 100s - TX	Chloride 3000	RCRA 8 Wastes	BG/OC - NM	BG/OC - TX	Sample Name	Temp	Remarks	
1135	12/16/25	S	1	BH06-3'				1				x					1.3		
1150				BH06-4'				2									2.1		
1153				BH06-5'				3									1.7		
1251				BH07-5'				4									2.3		
1312				BH07-6'				5									2.9		
1314	↓	↓	↓	BH07-7'				6									2.4		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, usantillana@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: Uriel Santillana

Relinquished by: (Signature) <i>U. Santillana</i>	Date 12/17/25	Time 900	Received by: (Signature) <i>Michelle Gonzales</i>	Date 12-17-25	Time 0900	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.
Relinquished by: (Signature) <i>Michelle Gonzales</i>	Date 12-17-25	Time 1515	Received by: (Signature) <i>Nathan Gonzales</i>	Date 12-17-25	Time 1515	
Relinquished by: (Signature) <i>Nathan Gonzales</i>	Date 12-17-25	Time 1945	Received by: (Signature) <i>Noe Soto</i>	Date 12-17-25	Time 1945	
Relinquished by: (Signature) <i>Noe Soto</i>	Date 12-17-25	Time 2330	Received by: (Signature) <i>Noe Soto</i>	Date 12-18-25	Time 0600	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	12/18/25 06:00	Work Order ID:	E512169
Phone:	(972) 371-5200	Date Logged In:	12/17/25 15:57	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	12/29/25 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? Yes
 Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

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
---	------

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: Government D TB

Work Order: E511307

Job Number: 23003-0002

Received: 11/21/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/1/25

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: 12/1/25



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

Project Name: Government D TB
Workorder: E511307
Date Received: 11/21/2025 8:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2025 8:45:00AM, under the Project Name: Government D TB.

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

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/01/25 11:04
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-2'	E511307-01A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS02-2'	E511307-02A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS03-2'	E511307-03A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS04-2'	E511307-04A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS05-2'	E511307-05A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS06-2'	E511307-06A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS07-4'	E511307-07A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS08-4'	E511307-08A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS09-4'	E511307-09A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS10-4'	E511307-10A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS11-4'	E511307-11A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS12-4'	E511307-12A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
SW01-0-4'	E511307-13A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
SW02-0-4'	E511307-14A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
SW03-0-4'	E511307-15A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
SW04-0-2'	E511307-16A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
SW05-0-4'	E511307-17A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
SW06-0-4'	E511307-18A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
SW07-0-2'	E511307-19A	Soil	11/19/25	11/21/25	Glass Jar, 2 oz.
FS13-0'	E511307-20A	Soil	11/20/25	11/21/25	Glass Jar, 2 oz.
FS14-0'	E511307-21A	Soil	11/20/25	11/21/25	Glass Jar, 2 oz.

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS01-2'**E511307-01**

Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	103 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	84.7 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	104 %	61-141		11/21/25	11/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	168	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS02-2'

E511307-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.5 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
Surrogate: n-Nonane	98.2 %	61-141		11/21/25	11/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	237	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS03-2'

E511307-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.9 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
Surrogate: n-Nonane	99.2 %	61-141		11/21/25	11/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	145	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS04-2'

E511307-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.3 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
Surrogate: n-Nonane	98.2 %	61-141		11/21/25	11/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	53.4	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS05-2'

E511307-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
Surrogate: 4-Bromochlorobenzene-PID	104 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.3 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
Surrogate: n-Nonane	99.5 %	61-141		11/21/25	11/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	140	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS06-2'

E511307-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>85.1 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>107 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	219	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS07-4'**E511307-07**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>102 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>85.1 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>98.5 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	80.2	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS08-4'

E511307-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>104 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>86.1 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>97.7 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	81.7	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS09-4'

E511307-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.2 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
Surrogate: n-Nonane	98.8 %	61-141		11/21/25	11/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	88.4	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS10-4'

E511307-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>86.2 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>96.1 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	94.8	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS11-4'

E511307-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>102 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>84.4 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>108 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	83.2	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS12-4'

E511307-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>102 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>85.5 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>96.3 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	80.4	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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SW01-0-4'

E511307-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.0 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
Surrogate: n-Nonane	97.8 %	61-141		11/21/25	11/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	76.9	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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SW02-0-4'

E511307-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>84.9 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>97.2 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	82.3	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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SW03-0-4'

E511307-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>85.6 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>95.6 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	95.5	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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SW04-0-2'

E511307-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>84.5 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>96.3 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	85.8	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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SW05-0-4'

E511307-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>103 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>85.0 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>94.5 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	90.6	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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SW06-0-4'

E511307-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	84.8 %	70-130		11/21/25	11/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
Surrogate: n-Nonane	96.8 %	61-141		11/21/25	11/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	83.0	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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SW07-0-2'

E511307-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
Surrogate: 4-Bromochlorobenzene-PID		103 %	70-130		11/21/25	11/22/25
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.9 %	70-130		11/21/25	11/22/25
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
Surrogate: n-Nonane		93.0 %	61-141		11/21/25	11/22/25
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	283	20.0	1	11/21/25	11/21/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS13-0'

E511307-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>104 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547129
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>85.0 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547117
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>91.0 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2547134
Chloride	96.8	40.0	2	11/21/25	11/22/25	

Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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FS14-0'

E511307-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2547127
Benzene	ND	0.0250	1	11/21/25	11/22/25	
Ethylbenzene	ND	0.0250	1	11/21/25	11/22/25	
Toluene	ND	0.0250	1	11/21/25	11/22/25	
o-Xylene	ND	0.0250	1	11/21/25	11/22/25	
p,m-Xylene	ND	0.0500	1	11/21/25	11/22/25	
Total Xylenes	ND	0.0250	1	11/21/25	11/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>107 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2547127
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/21/25	11/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	<i>104 %</i>	<i>70-130</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: HM		Batch: 2547114
Diesel Range Organics (C10-C28)	ND	25.0	1	11/21/25	11/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/21/25	11/22/25	
<i>Surrogate: n-Nonane</i>	<i>96.1 %</i>	<i>61-141</i>		<i>11/21/25</i>	<i>11/22/25</i>	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2547135
Chloride	83.8	40.0	2	11/21/25	11/24/25	

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2547127-BLK1)

Prepared: 11/21/25 Analyzed: 11/22/25

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

8.27 8.00 103 70-130

LCS (2547127-BS1)

Prepared: 11/21/25 Analyzed: 11/22/25

Benzene	5.06	0.0250	5.00	101	70-130				
Ethylbenzene	4.89	0.0250	5.00	97.8	70-130				
Toluene	5.03	0.0250	5.00	101	70-130				
o-Xylene	4.98	0.0250	5.00	99.5	70-130				
p,m-Xylene	9.98	0.0500	10.0	99.8	70-130				
Total Xylenes	15.0	0.0250	15.0	99.7	70-130				

Surrogate: 4-Bromochlorobenzene-PID

8.37 8.00 105 70-130

Matrix Spike (2547127-MS1)

Source: E511305-09

Prepared: 11/21/25 Analyzed: 11/24/25

Benzene	55.2	0.250	50.0	14.1	82.3	70-130			
Ethylbenzene	94.7	0.250	50.0	58.3	72.6	70-130			
Toluene	132	0.250	50.0	98.6	66.9	70-130			
o-Xylene	72.8	0.250	50.0	33.5	78.6	70-130			
p,m-Xylene	161	0.500	100	84.6	76.4	70-130			
Total Xylenes	234	0.250	150	118	77.1	70-130			

Surrogate: 4-Bromochlorobenzene-PID

94.6 80.0 118 70-130

M2

Matrix Spike Dup (2547127-MSD1)

Source: E511305-09

Prepared: 11/21/25 Analyzed: 11/24/25

Benzene	58.7	0.250	50.0	14.1	89.3	70-130	6.11	27	
Ethylbenzene	102	0.250	50.0	58.3	86.9	70-130	7.26	26	
Toluene	143	0.250	50.0	98.6	88.5	70-130	7.88	20	
o-Xylene	77.8	0.250	50.0	33.5	88.5	70-130	6.61	25	
p,m-Xylene	172	0.500	100	84.6	87.5	70-130	6.69	23	
Total Xylenes	250	0.250	150	118	87.9	70-130	6.67	26	

Surrogate: 4-Bromochlorobenzene-PID

97.1 80.0 121 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2547129-BLK1)

Prepared: 11/21/25 Analyzed: 11/22/25

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

8.33 8.00 104 70-130

LCS (2547129-BS1)

Prepared: 11/21/25 Analyzed: 11/22/25

Benzene	5.26	0.0250	5.00	105	70-130				
Ethylbenzene	5.10	0.0250	5.00	102	70-130				
Toluene	5.21	0.0250	5.00	104	70-130				
o-Xylene	5.19	0.0250	5.00	104	70-130				
p,m-Xylene	10.4	0.0500	10.0	104	70-130				
Total Xylenes	15.6	0.0250	15.0	104	70-130				

Surrogate: 4-Bromochlorobenzene-PID

8.32 8.00 104 70-130

Matrix Spike (2547129-MS1)

Source: E511307-05

Prepared: 11/21/25 Analyzed: 11/22/25

Benzene	5.51	0.0250	5.00	ND	110	70-130			
Ethylbenzene	5.33	0.0250	5.00	ND	107	70-130			
Toluene	5.45	0.0250	5.00	ND	109	70-130			
o-Xylene	5.39	0.0250	5.00	ND	108	70-130			
p,m-Xylene	10.8	0.0500	10.0	ND	108	70-130			
Total Xylenes	16.2	0.0250	15.0	ND	108	70-130			

Surrogate: 4-Bromochlorobenzene-PID

8.31 8.00 104 70-130

Matrix Spike Dup (2547129-MSD1)

Source: E511307-05

Prepared: 11/21/25 Analyzed: 11/22/25

Benzene	6.23	0.0250	5.00	ND	125	70-130	12.2	27	
Ethylbenzene	6.00	0.0250	5.00	ND	120	70-130	11.9	26	
Toluene	6.14	0.0250	5.00	ND	123	70-130	11.8	20	
o-Xylene	6.07	0.0250	5.00	ND	121	70-130	12.0	25	
p,m-Xylene	12.2	0.0500	10.0	ND	122	70-130	11.8	23	
Total Xylenes	18.3	0.0250	15.0	ND	122	70-130	11.9	26	

Surrogate: 4-Bromochlorobenzene-PID

8.33 8.00 104 70-130

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2547127-BLK1)

Prepared: 11/21/25 Analyzed: 11/22/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		8.00		104	70-130			

LCS (2547127-BS2)

Prepared: 11/21/25 Analyzed: 11/22/25

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	96.7	70-130				
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		8.00	104	70-130				

Matrix Spike (2547127-MS2)

Source: E511305-09

Prepared: 11/21/25 Analyzed: 11/24/25

Gasoline Range Organics (C6-C10)	2220	200	500	1550	133	70-130			M2
Surrogate: 1-Chloro-4-fluorobenzene-FID	100		80.0	125	70-130				

Matrix Spike Dup (2547127-MSD2)

Source: E511305-09

Prepared: 11/21/25 Analyzed: 11/24/25

Gasoline Range Organics (C6-C10)	2130	200	500	1550	115	70-130	4.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	103		80.0	128	70-130				

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD	RPD Limit	Notes
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Blank (2547129-BLK1)

Prepared: 11/21/25 Analyzed: 11/22/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.79		8.00		84.8	70-130			

LCS (2547129-BS2)

Prepared: 11/21/25 Analyzed: 11/22/25

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		8.00		85.9	70-130			

Matrix Spike (2547129-MS2)

Source: E511307-05

Prepared: 11/21/25 Analyzed: 11/22/25

Gasoline Range Organics (C6-C10)	52.9	20.0	50.0	ND	106	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.3	70-130			

Matrix Spike Dup (2547129-MSD2)

Source: E511307-05

Prepared: 11/21/25 Analyzed: 11/22/25

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130	7.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		8.00		85.9	70-130			

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2547114-BLK1)

Prepared: 11/21/25 Analyzed: 11/21/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	46.3		50.0		92.5	61-141		

LCS (2547114-BS1)

Prepared: 11/21/25 Analyzed: 11/21/25

Diesel Range Organics (C10-C28)	239	25.0	250		95.6	66-144		
Surrogate: n-Nonane	46.7		50.0		93.3	61-141		

Matrix Spike (2547114-MS1)

Source: E511304-07

Prepared: 11/21/25 Analyzed: 11/21/25

Diesel Range Organics (C10-C28)	244	25.0	250	ND	97.6	56-156		
Surrogate: n-Nonane	47.3		50.0		94.6	61-141		

Matrix Spike Dup (2547114-MSD1)

Source: E511304-07

Prepared: 11/21/25 Analyzed: 11/21/25

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.8	56-156	1.17	20
Surrogate: n-Nonane	47.3		50.0		94.6	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit	Notes
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Blank (2547117-BLK1)

Prepared: 11/21/25 Analyzed: 11/22/25

Diesel Range Organics (C10-C28)	ND	25.0						
Oil Range Organics (C28-C36)	ND	50.0						
Surrogate: n-Nonane	50.9		50.0		102	61-141		

LCS (2547117-BS1)

Prepared: 11/21/25 Analyzed: 11/22/25

Diesel Range Organics (C10-C28)	259	25.0	250		104	66-144		
Surrogate: n-Nonane	50.5		50.0		101	61-141		

Matrix Spike (2547117-MS1)

Source: E511307-05

Prepared: 11/21/25 Analyzed: 11/22/25

Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	56-156		
Surrogate: n-Nonane	47.9		50.0		95.7	61-141		

Matrix Spike Dup (2547117-MSD1)

Source: E511307-05

Prepared: 11/21/25 Analyzed: 11/22/25

Diesel Range Organics (C10-C28)	254	25.0	250	ND	102	56-156	1.64	20
Surrogate: n-Nonane	48.7		50.0		97.4	61-141		

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	Government D TB 23003-0002 Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2547134-BLK1)

Prepared: 11/21/25 Analyzed: 11/21/25

Chloride ND 20.0

LCS (2547134-BS1)

Prepared: 11/21/25 Analyzed: 11/21/25

Chloride 259 20.0 250 104 90-110

Matrix Spike (2547134-MS1)

Source: E511307-05 Prepared: 11/21/25 Analyzed: 11/21/25

Chloride 402 20.0 250 140 105 80-120

Matrix Spike Dup (2547134-MSD1)

Source: E511307-05 Prepared: 11/21/25 Analyzed: 11/21/25

Chloride 415 20.0 250 140 110 80-120 3.09 20

QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/1/2025 11:04:20AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2547135-BLK1)

Prepared: 11/21/25 Analyzed: 11/21/25

Chloride ND 20.0

LCS (2547135-BS1)

Prepared: 11/21/25 Analyzed: 11/21/25

Chloride 251 20.0 250 101 90-110

Matrix Spike (2547135-MS1)

Source: E511306-26 Prepared: 11/21/25 Analyzed: 11/21/25

Chloride 256 20.0 250 ND 102 80-120

Matrix Spike Dup (2547135-MSD1)

Source: E511306-26 Prepared: 11/21/25 Analyzed: 11/21/25

Chloride 257 20.0 250 ND 103 80-120 0.368 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. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Government D TB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 12/01/25 11:04
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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.

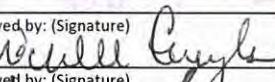
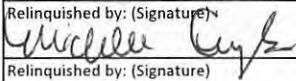
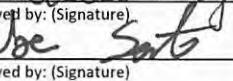
Note (1): Methods marked with ** are non-accredited methods.

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



Client Information				Invoice Information				Lab Use Only		TAT		State					
Client: Matador Production Company Project Name: Government D TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com				Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:				Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
								ES11307	23005-0002			X		X			
Analysis and Method												EPA Program					
												SDWA	CWA	RCRA			
												Compliance	Y	or	N		
												PWSID #					
Sample Information												Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID				Lab Number	Field	Filter	VOC by 8260	TCEC by 8260	RCRA 8 Metals	BSPEC - NM	BSPEC - TX	Temp Sample	
833	11/19/2025	S	1	FS01 - 2'				1					X			3.8	
835	11/19/2025	S	1	FS02 - 2'				2					X			3.6	
836	11/19/2025	S	1	FS03 - 2'				3					X			4.4	
837	11/19/2025	S	1	FS04 - 2'				4					X			4.0	
838	11/19/2025	S	1	FS05 - 2'				5					X			4.2	
839	11/19/2025	S	1	FS06 - 2'				6					X			3.6	
1552	11/19/2025	S	1	FS07 - 4'				7					X			3.9	
1605	11/19/2025	S	1	FS08 - 4'				8					X			4.3	
1438	11/19/2025	S	1	FS09 - 4'				9					X			4.6	
1442	11/19/2025	S	1	FS10 - 4'				10					X			4.8	
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, imccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@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: <u>Jarad McCauley</u>																	
Relinquished by: (Signature) <u>Jarad McCauley</u>		Date	Time	Received by: (Signature)				Date	Time	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.							
Relinquished by: (Signature) <u>Jarad McCauley</u>		11-20-25	1135	Received by: (Signature) <u>Michelle Guy</u>				11-20-25	1135								
Relinquished by: (Signature) <u>Michelle Guy</u>		11-20-25	2240	Received by: (Signature) <u>Noe Soto</u>				11-21-25	0845								
Relinquished by: (Signature) <u>Noe Soto</u>		Date	Time	Received by: (Signature)				Date	Time	Lab Use Only							
Relinquished by: (Signature) <u>Noe Soto</u>		Date	Time	Received by: (Signature)				Date	Time	Received on ice: <u>Y</u> 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.																	

Chain of Custody

Client Information					Invoice Information			Lab Use Only			TAT				State				
Client: Matador Production Company Project Name: Government D TB Project Manager: Ashley Giovengo Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com					Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:			Lab WO# E 511307		Job Number 23003-0055		1D	2D	3D	Std	NM	CO	UT	TX
														X					
Sample Information										Analysis and Method					EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	Field	GR/0/DR/0 by 8015	DR/0/DR/0 by 8015	Chromate 3000	TCCA 1000 - X	RCRA 8 Metals	BGOC - NM	SDWA	CWA	RCRA			
1443	11/19/2025	S	1	FS11 - 4'		11				X									
1445	11/19/2025	S	1	FS12 - 4'		12				X									
1607	11/19/2025	S	1	SW01 - 0 - 4'		13					X								
1610	11/19/2025	S	1	SW02 - 0 - 4'		14					X								
1447	11/19/2025	S	1	SW03 - 0 - 4'		15					X								
840	11/19/2025	S	1	SW04 - 0 - 2'		16					X								
1449	11/19/2025	S	1	SW05 - 0 - 4'		17					X								
1448	11/19/2025	S	1	SW06 - 0 - 4'		18					X								
842	11/19/2025	S	1	SW07 - 0 - 2'		19					X								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@ensolum.com, imccauley@ensolum.com, akone@ensolum.com, jgonzalezz@ensolum.com, jhinkle@ensolum.com, eplugge@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: <u>Jared McCauley</u>																			
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 on ice at a temp above 0 but less than 6°C on subsequent days.											
Relinquished by: (Signature)		11-20-25	1135	Received by: (Signature) 		11-20-25	1103												
Relinquished by: (Signature) 		11-20-25	2240	Received by: (Signature) 		11-21-25	0845												
Relinquished by: (Signature)				Received by: (Signature)															
Relinquished by: (Signature)				Received by: (Signature)															
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.																			

Chain of Custody

Envirotech Analytical Laboratory

Printed: 11/21/2025 2:40:08PM

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:	11/21/25 08:45	Work Order ID:	E511307
Phone:	(972) 371-5200	Date Logged In:	11/20/25 15:29	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	12/01/25 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? Yes
 Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

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? Yes
 Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

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
---	------

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

Date



envirotech Inc.



APPENDIX F

NMOCD Correspondence

From: [Hamlet, Robert, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Ashley Giovengo](#); [Jason Touchet](#); [Arsenio Jones](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: (Extension Approval) - Matador Production Company - Government D TB - Incident Number nAPP2507528555
Date: Friday, June 13, 2025 2:07:28 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2507528555 GOVERNMENT D TB

Chad,

A 90-day extension is approved. Please have a remediation closure report uploaded to the OCD Permitting Portal no later than **September 11th, 2025**. Include this e-mail correspondence in the report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Chad Hamilton <chamilton@ensolum.com>
Sent: Friday, June 13, 2025 11:12 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Cc: Ashley Giovengo <agiovengo@ensolum.com>; Jason Touchet <jason.touchet@matadorresources.com>; Arsenio Jones <arsenio.jones@matadorresources.com>
Subject: [EXTERNAL] Extension Request - Matador Production Company - Government D TB - Incident Number nAPP2507528555

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

All,

Matador Production Company (Matador) is requesting an extension of the current deadline of June 13, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Government D TB (Site) (Incident Number nAPP2507528555). The release occurred on March 15, 2025, and approximately 28 barrels (bbls) of produced were released into a secondary lined containment; 25 bbls were recovered. Ensolum personnel have completed lateral and vertical delineation soil sampling within and around the release extent with a hand auger and gas-powered core drill. Ensolum personnel collected discrete delineation soil samples from boreholes (BH01 through BH05) at depths ranging from 2 feet below ground surface (bgs) to 15 feet bgs, respectively. Matador intends to return to the Site in order to complete excavation activities in accordance with the Site Closure Criteria and respectfully requests a 90-day extension until September 11, 2025. Matador will complete remediation of the subject matter release and submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Please let me know if you have any further questions regarding this site.

Thanks,



Chad Hamilton

Project Geologist
940-923-0072
Ensolum, LLC

From: [Hamlet, Robert, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Jason Touchet](#); [Ashley Giovengo](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: (Final Extension) - Matador Production Company - Government D TB - Incident Number nAPP2507528555
Date: Thursday, September 11, 2025 11:17:14 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Chad,

A 90-day extension is approved. This will be the **final extension** for this release. Please have a remediation closure report uploaded to the OCD Permitting Portal no later than **December 10th, 2025**. Include this e-mail correspondence in the report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Chad Hamilton <chamilton@ensolum.com>
Sent: Thursday, September 11, 2025 8:46 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Ashley Giovengo <agiovengo@ensolum.com>
Subject: [EXTERNAL] Matador Production Company - Government D TB - Incident Number nAPP2507528555

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

All,

Matador Production Company (Matador) is requesting a second extension of the current deadline of September 11, 2025, for submitting a remediation work plan or closure report

required in 19.15.29.12.B.(1) NMAC at the Government D TB (Site) (Incident Number nAPP2507528555). The release occurred on March 15, 2025, and approximately 28 barrels (bbls) of produced were released into a secondary lined containment; 25 bbls were recovered. Ensolum personnel have completed lateral and vertical delineation soil sampling within and around the release extent with a hand auger and gas-powered core drill. Ensolum personnel collected discrete delineation soil samples from boreholes (BH01 through BH05) at depths ranging from 2 feet below ground surface (bgs) to 15 feet bgs, respectively. On June 17, 2025, Southwest Geophysical Consulting, LLC (Southwest Geophysical) was contracted to perform a karst survey at the Site. Southwest Geophysical completed the geophysical karst survey on August 2, 2025, under the supervision of Dave Decker. Matador intends to return to the Site in order to complete excavation activities in accordance with the Site Closure Criteria and respectfully requests a second 90-day extension until December 10, 2025. Matador will complete remediation of the subject matter release and submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Please let me know if you have any further questions regarding this site.

Thanks,



Chad Hamilton

Project Geologist

940-923-0072

Ensolum, LLC

[in](#) [f](#) [Twitter icon](#)

From: [Hamlet, Robert, EMNRD](#)
To: [Chad Hamilton](#)
Cc: [Jason Touchet](#); [Ashley Giovengo](#); [Bratcher, Michael, EMNRD](#); [Wells, Shelly, EMNRD](#)
Subject: (Extension Denied) - Matador Production Company - Government D TB - Incident Number nAPP2507528555
Date: Wednesday, December 10, 2025 2:43:09 PM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

RE: Incident #**NAPP2507528555**

Chad,

Multiple extensions have already been granted for this incident, as well as a final extension. Your request for another extension is **denied**. Please move forward with the remediation work as quickly as possible. Include this e-mail correspondence in the Remediation Closure Report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>



From: Chad Hamilton <chamilton@ensolum.com>
Sent: Wednesday, December 10, 2025 2:06 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Jason Touchet <jason.touchet@matadorresources.com>; Ashley Giovengo <agiovengo@ensolum.com>
Subject: [EXTERNAL] Matador Production Company - Government D TB - Incident Number nAPP2507528555

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

All,

Matador Production Company (Matador) is requesting an extension of the current deadline of December 10, 2025, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Government D TB (Site) (Incident Number nAPP2507528555). The release occurred on March 15, 2025, and approximately 28 barrels (bbls) of produced were released into a lined secondary containment; 25 bbls of produced water were recovered. Ensolum personnel have completed lateral and vertical delineation soil sampling within and around the release extent with a hand auger and gas-powered core drill. Ensolum personnel collected discrete delineation soil samples from boreholes (BH01 through BH05) at depths ranging from 2 feet below ground surface (bgs) to 15 feet bgs, respectively. Three boreholes (BH01 through BH03) were advanced within the containment liner; Matador has since repaired the entire containment liner. On June 17, 2025, Southwest Geophysical Consulting, LLC (Southwest Geophysical) was contracted to perform a karst survey at the Site. Southwest Geophysical completed the geophysical karst survey on August 2, 2025, under the supervision of Dave Decker. On September 19, 2025, Ensolum personnel completed a depth to water boring on a neighboring pad to determine the depth ground water within a ½-mile radius of the Site. Beginning on November 17, 2025, Ensolum personnel were onsite to oversee excavation activities and to collect final confirmation samples from within the excavation extent. Matador respectfully requests a 60-day extension until February 6, 2026, to complete additional soil sampling activities at the Site. Matador will submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation soil sampling activities. Please let me know if you have any further questions regarding this site.

Thanks,



Chad Hamilton

Project Geologist

940-923-0072

Ensolum, LLC

[in](#) [f](#) [t](#)

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 442765

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 442765
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

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

Nature and Volume of Release <i>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.</i>	
Crude Oil Released (bbls) Details	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Corrosion Tank (Any) Produced Water Released: 28 BBL Recovered: 25 BBL Lost: 3 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>Not answered.</i>

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

QUESTIONS, Page 2

Action 442765

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 442765
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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	N/A

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

ACKNOWLEDGMENTS

Action 442765

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 442765
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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.
<input checked="" type="checkbox"/>	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

Action 442765

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 442765
	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.	3/16/2025

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Phone: (505) 476-3441

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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 443723

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937 Action Number: 443723 Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)
---	--

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	4,477
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	03/21/2025
Time liner inspection will commence	09:30 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	(32.50199, -104.14477)

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

CONDITIONS

Action 443723

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 443723
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	3/18/2025

Pooled Fluids on the Surface										
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0. don't count shared boundaries	Oil-Water Ratio (%)	Pooled Area (ft ²)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	52.0	52.0	2.5	4.0	0.01	2704.0	0.1	25.1	0.25	24.82
Rectangle B						0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Volume (bbls):							25.07	0.25	24.82	

Subsurface Fluids										
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation	Oil-Water Ratio (%)	Area (ft ²)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	52.0	52.0	1.0	0.1	0.01	2704.0	40.1	3.2	0.03	3.2
Rectangle B						0.0	0.0	0.0	0.00	0.0
Rectangle C						0.0	0.0	0.0	0.00	0.0
Rectangle D						0.0	0.0	0.0	0.00	0.0
Rectangle E						0.0	0.0	0.0	0.00	0.0
Rectangle F						0.0	0.0	0.0	0.00	0.0
Rectangle G						0.0	0.0	0.0	0.00	0.0
Rectangle H						0.0	0.0	0.0	0.00	0.0
Rectangle I						0.0	0.0	0.0	0.00	0.0
Rectangle J						0.0	0.0	0.0	0.00	0.0
Total Volume (bbls):							3.21	0.03	3.18	

TOTAL RELEASE VOLUME (bbls):	28.3
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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 443357

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 443357
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Corrosion Tank (Any) Produced Water Released: 28 BBL Recovered: 25 BBL Lost: 3 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>Not answered.</i>

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QUESTIONS, Page 2

Action 443357

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 443357
	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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	N/A

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: 03/18/2025
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QUESTIONS, Page 3

Action 443357

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 443357
	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)	<i>Not answered.</i>
What method was used to determine the depth to ground water	<i>Not answered.</i>
Did this release impact groundwater or surface water	<i>Not answered.</i>
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	<i>Not answered.</i>
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	<i>Not answered.</i>
An occupied permanent residence, school, hospital, institution, or church	<i>Not answered.</i>
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	<i>Not answered.</i>
Any other fresh water well or spring	<i>Not answered.</i>
Incorporated municipal boundaries or a defined municipal fresh water well field	<i>Not answered.</i>
A wetland	<i>Not answered.</i>
A subsurface mine	<i>Not answered.</i>
An (non-karst) unstable area	<i>Not answered.</i>
Categorize the risk of this well / site being in a karst geology	<i>Not answered.</i>
A 100-year floodplain	<i>Not answered.</i>
Did the release impact areas not on an exploration, development, production, or storage site	<i>Not answered.</i>

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
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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CONDITIONS

Action 443357

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 443357
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	None	3/19/2025

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QUESTIONS

Action 446150

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937 Action Number: 446150 Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)
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QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Liner Inspection Event Information	
<i>Please answer all the questions in this group.</i>	
What is the liner inspection surface area in square feet	4,477
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	03/31/2025
Time liner inspection will commence	09:30 AM
Please provide any information necessary for observers to liner inspection	Tank Containment
Please provide any information necessary for navigation to liner inspection site	32.50199, -104.14477

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CONDITIONS

Action 446150

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 446150
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	3/27/2025

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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 525648

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 525648
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,139
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/14/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jarad McCauley @ (413) 270-1244
Please provide any information necessary for navigation to sampling site	32.50199,-104.14477

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CONDITIONS

Action 525648

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 525648
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/12/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	11/12/2025

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QUESTIONS

Action 525654

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 525654
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,139
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/17/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jarad McCauley @ (413) 270-1244
Please provide any information necessary for navigation to sampling site	32.50199,-104.14477

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CONDITIONS

Action 525654

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 525654
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/12/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	11/12/2025

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QUESTIONS

Action 525658

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 525658
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,139
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/18/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jarad McCauley @ (413) 270-1244
Please provide any information necessary for navigation to sampling site	32.50199,-104.14477

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CONDITIONS

Action 525658

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 525658
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/12/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	11/12/2025

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QUESTIONS

Action 526927

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 526927
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,139
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/19/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jarad McCauley @ (413) 270-1244
Please provide any information necessary for navigation to sampling site	32.50199,-104.14477

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CONDITIONS

Action 526927

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 526927
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/17/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	11/17/2025

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QUESTIONS

Action 526937

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 526937
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,139
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/20/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jarad McCauley @ (413) 270-1244
Please provide any information necessary for navigation to sampling site	32.50199,-104.14477

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CONDITIONS

Action 526937

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 526937
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/17/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	11/17/2025

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QUESTIONS

Action 527783

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 527783
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	2,139
What is the estimated number of samples that will be gathered	16
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/21/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Jarad McCauley @ (413) 270-1244
Please provide any information necessary for navigation to sampling site	32.50199,-104.14477

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CONDITIONS

Action 527783

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 527783
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	11/19/2025
j_touchet	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	11/19/2025

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QUESTIONS

Action 543428

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 543428
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2507528555
Incident Name	NAPP2507528555 GOVERNMENT D TB @ C-12-21S-27E
Incident Type	Produced Water Release
Incident Status	Deferral Request Received

Location of Release Source*Please answer all the questions in this group.*

Site Name	Government D TB
Date Release Discovered	03/15/2025
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	<i>Not answered.</i>
Produced Water Released (bbls) Details	<i>Cause: Corrosion Tank (Any) Produced Water Released: 28 BBL Recovered: 25 BBL Lost: 3 BBL.</i>
Is the concentration of chloride in the produced water >10,000 mg/l	<i>Yes</i>
Condensate Released (bbls) Details	<i>Not answered.</i>
Natural Gas Vented (Mcf) Details	<i>Not answered.</i>
Natural Gas Flared (Mcf) Details	<i>Not answered.</i>
Other Released Details	<i>Not answered.</i>
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	<i>Not answered.</i>

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

QUESTIONS, Page 2

Action 543428

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 543428
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response	
<i>The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.</i>	
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	N/A

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: 01/15/2026
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QUESTIONS, Page 3

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Action 543428

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 543428
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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 26 and 50 (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 ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (ft.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between ½ and 1 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	5730
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1627
GRO+DRO (EPA SW-846 Method 8015M)	537
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	11/17/2025
On what date will (or did) the final sampling or liner inspection occur	11/19/2025
On what date will (or was) the remediation complete(d)	12/16/2025
What is the estimated surface area (in square feet) that will be reclaimed	1445
What is the estimated volume (in cubic yards) that will be reclaimed	108
What is the estimated surface area (in square feet) that will be remediated	2138
What is the estimated volume (in cubic yards) that will be remediated	180

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

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Action 543428

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 543428
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	<i>Not answered.</i>
OR which OCD approved well (API) will be used for off-site disposal	<i>Not answered.</i>
OR is the off-site disposal site, to be used, out-of-state	<i>Not answered.</i>
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)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

I 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: 01/15/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 543428

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 543428
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	Areas of deferral are directly beneath a lined earthen containment and production as well as next to process piping with concrete supports that prevent the safe removal of impacted soil.
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	5359
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	458

Per Paragraph (2) of Subsection C of 19.15.29.12 NMAC if contamination is located in areas immediately under or around production equipment such as production tanks, wellheads and pipelines where remediation could cause a major facility deconstruction, the remediation, restoration and reclamation may be deferred with division written approval until the equipment is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.

Enter the facility ID (#) on which this deferral should be granted	Not answered.
Enter the well API (30-) on which this deferral should be granted	30-015-25345 GOVERNMENT D #009
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True

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: 01/15/2026
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QUESTIONS, Page 6

Action 543428

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 543428
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	527783
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/21/2025
What was the (estimated) number of samples that were to be gathered	16
What was the sampling surface area in square feet	2139

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 543428

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 543428
	Action Type: [C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	Matador's deferral requests final remediation for (Incident Number NAPP2507528555) until final reclamation of the well pad/facility or major construction, whichever comes first. Ensolum and Matador do not believe deferment will result in imminent risk to human health, the environment, or groundwater. The impacted soil is the area designated as "Deferral Area" on figure 4 that is limited to the area beneath active production equipment and within the containment area, where remediation would require a major facility deconstruction. At this time, OCD approves this request. The Deferral Request and C-141 will be accepted for record and placed in the incident file. The release will remain open in OCD database files and reflect an open environmental issue.	1/20/2026
rhamlet	The "Environmental Karst Study Report – Matador Government D Tank Battery" will be accepted for record and placed in the incident files for future reference. The SDNP survey area contains no surface karst features within 200 feet (61 meters) of the spill delineation boundary provided by the client. 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. In New Mexico, karst surveys are generally valid for a period of three years due to the dynamic and unpredictable nature of karst areas.	1/20/2026