



July 7, 2025

New Mexico Energy Minerals and Natural Resources Department

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

**Re: Closure Request
Woolhead CTB
Incident Number nAPP2500853952
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the Woolhead CTB (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following an equipment failure. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, delineation, and excavation activities that have occurred and requesting no further action for Incident Number nAPP2500853952.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 20, Township 21 South, Range 33 East, in Lea County, New Mexico (32.45841°, -103.59156°) and is associated with oil and gas exploration and production operations on State Trust Land (STL) managed by the New Mexico State Land Office (NMSLO).

On January 8, 2025, corrosion on a water transfer pipeline riser caused a leak resulting in 76 barrels (bbls) of produced water to be released on to the well pad and the adjacent pipeline right-of-way, 60 bbls of produced water were recovered. Matador submitted a Release Notification Form C-141 (C-141) on January 9, 2025. The Form C-141 can be referenced on the New Mexico Oil Conservation Division (NMOCD) Portal.

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). Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is the New Mexico Office of the State Engineer (NMOSE) well CP-1880 POD1, located approximately 608 feet east of the Site. The well had a reported depth to groundwater greater than 110 feet below ground surface (bgs) and has since been plugged and abandoned following the depth to water measurement. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or

vegetation to suggest the Site is conducive to shallower groundwater. 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 a freshwater pond, located approximately 2,970 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad area that was impacted by the release, per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation.

CULTURAL AND BIOLOGICAL REVIEW

The release remained on pad and within an existing pipeline right-of-way and as such, an assessment(s) of cultural properties had already been completed prior to the construction of the well pad and right-of-way. Therefore, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

The Site is not located within the historical range of the Lesser Prairie Chicken (LPC) but is located within an NMSLO Candidate Conservation Agreement with Assurances (CCAA) area. The Site is not located within the range of the Dunes Sagebrush Lizard. No suitable habitat was identified at the Site. A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) resources indicated there are no critical wildlife habitats at the Site. Threatened or endangered bird species (LPC or others) are potentially present in the area near the Site. No native vegetation/habitat outside of the well pad extent will be disturbed during excavation activities. The Site area is greater than 1,000 feet to surface water, wetlands, or other sensitive receptors.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On January 8, January 11, February 4, February 24, and March 14, 2025, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Preliminary soil samples SS01 through SS04 were collected at ground surface to assess the lateral extent of the release area. Two boreholes, BH01 and BH02, were advanced within the release extent to assess the vertical extent of impacted soil; borehole BH01 was advanced to a depth of 60 feet bgs and borehole BH02 was advanced to a depth of 5 feet bgs.

The preliminary soil samples and boreholes were field screened for chloride and TPH utilizing Hatch® QuanTab® chloride test strips and a PetroFLAG® Soil Analyzer System, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix B. Photographs from delineation and excavation activities can be referenced in the Photolog in Appendix C.

The 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 and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES

Beginning on May 7, 2025, impacted and waste containing soil was excavated from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a hydrovac, skid steer, and hand digging crew. To direct excavation activities, Ensolum personnel screened soil for chloride and TPH utilizing the processes described above.

Following the removal of impacted and waste containing soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS07 were collected from the floor of the excavation at depths ranging from 0.5 feet to 4 feet bgs. Composite soil sample SW01 was collected from the excavation sidewalls, in the off pad excavation portion, ranging in depth from the ground surface to 4 feet bgs. The excavation soil samples were collected, 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 1,306 square feet. A total of approximately 56 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal in Hobbs, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples SS01A through SS04 indicated all COCs were in compliance with the strictest Closure Criteria at ground surface and preliminary soil sample SS01 was in compliance with the Site Closure Criteria. Laboratory analytical results for boreholes BH01 and BH02 indicated all COCs were in compliance with the Site Closure Criteria per NMOCD Table I at ground surface and in compliance with the reclamation requirement at 4 feet bgs.

Laboratory analytical results for excavation floor soil samples FS02 through FS07 indicated all COC concentrations were compliant with the Site Closure Criteria per NMOCD Table I at depths of 0.5 feet bgs and excavation floor sample FS01 was compliant with the Site Closure Criteria per NMOCD Table I and the reclamation requirement at a depth of 4 feet bgs. Laboratory analytical results for excavation sidewall soil sample SW01 indicated all COC concentrations were compliant with the strictest Site Closure Criteria per NMOCD Table I at depths ranging from ground surface to 4 feet bgs. Laboratory

analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix D.

RECLAMATION PLAN

Portions of the release occurred off pad in the adjacent pipeline right-of-way, and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH were applied to the top 4 feet of the subsurface that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan proposes reclamation of the excavated area:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. Approximately 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release includes: Kermit soils and Dune Land, 0 to 12 percent slopes and Pyote soils and Dune land, 0 to 3 percent slopes according to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey completed on November 27, 2023;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be: NMSLO Blow Sand (BS) Mixture;
- The seed mixture will be distributed with either a push broadcaster seed spreader, tractor operated broadcast seed spreader, drill seeding, or other means;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;
- Erosion control management is not anticipated, but if needed, will potentially include:
 - The placement of wattles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Seeding is anticipated to be completed in the Spring when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Fall to assess the success of regrowth. If necessary, an additional application of the NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion;
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

Matador Production Company
Woolhead CTB
Closure Request



CLOSURE REQUEST

The release extent has been laterally defined in accordance with the strictest Closure Criteria by delineation soil samples SS01A through SS04, collected at ground surface, and vertically defined by borehole BH01, collected at a depth of 60 feet bgs. Excavation of impacted and waste containing soil was completed, and excavation floor samples FS01 through FS07, collected at depths ranging from 0.5 feet to 4 feet bgs, were all in compliance with the Site Closure Criteria. Excavation sidewall sample SW01, collected from ground surface to 4 feet bgs, was all in compliance with the strictest Closure Criteria.

Based on the remedial actions completed to date, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2500853952.

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

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "CHAD HAMILTON".

Chad Hamilton
Project Geologist

A handwritten signature in black ink, appearing to read "D. R. MOIR".

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

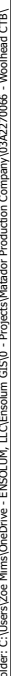
cc: Matador

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil Sample Analytical Results (Excavation Soil Samples)
Appendix A	Referenced Well Records
Appendix B	Lithologic / Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications



FIGURES



Site Receptor Map

Matador Production Company
Woolhead CTB
 Incident Number: nAPP2500853952
 Unit O, Section 20, T 21S, R 33E
 Lea County, New Mexico

FIGURE

1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- Lined Containment Area
- Infrastructure
- Release Extent

BH01@0'
 BH01@1'
 BH01@3'
 BH01@5'
 BH01@6.5'
 BH01@8'
 BH01@10'
 BH01@12'
 BH01@14'
 BH01@16'
 BH01@18'
 BH01@20'
 BH01@22'
 BH01@25'
 BH01@30'
 BH01@35'
 BH01@40'
 BH01@45'
 BH01@50'
 BH01@55'
 BH01@60'

BH02@0'
 BH02@1'
 BH02@3'
 BH02@5'

SS03@0'
 SS04@0'
 SS02@0'
 SS01A@0'
 SS01@0'

Notes:
Sample ID @ Depth Below Ground Surface.

0 10 20 40 60 80
Feet

Sources: Environmental Systems Research Institute (ESRI)



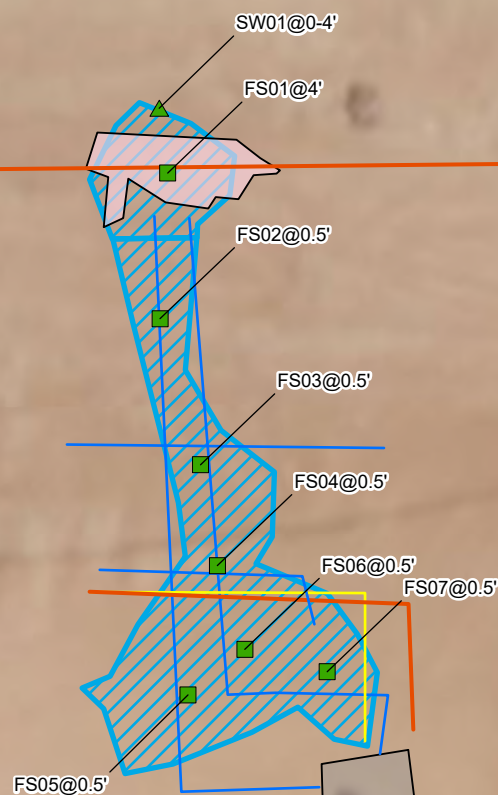
Delineation Soil Sample Locations

Matador Production Company
 Woolhead CTB
 Incident Number: nAPP2500853952
 Unit O, Section 20, T 21S, R 33E
 Lea County, New Mexico

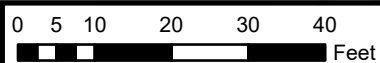
FIGURE
2

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- ▲ Excavation Sidewall Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- Water Utility Line
- ▨ Excavation Extent
- Lined Containment Area
- Infrastructure



Notes:
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

**Excavation Soil Sample Locations**

Matador Production Company
Woolhead CTB
Incident Number: nAPP2500853952
Unit O, Section 20, T 21S, R 33E
Lea County, New Mexico

FIGURE**3**



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Woolhead CTB
Matador Production Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
SS01	1/8/2025	0	<0.0250	<0.0500	<20.0	35.5	68.0	35.5	103.5	<20.0
SS01A	1/14/2025	0	<0.0250	<0.0500	<20.0	28.1	<25.0	28.1	28.1	37.6
SS02	1/8/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	1/8/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	161
SS04	1/14/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	27.7
BH01	1/14/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,660
BH01	1/14/2025	1	<0.0250	<0.0500	<20.0	27.4	<50.0	27.4	27.4	7,720
BH01	1/14/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,690
BH01	1/14/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,280
BH01	1/14/2025	6.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,860
BH01	2/4/2025	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,090
BH01	2/4/2025	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,300
BH01	2/4/2025	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,920
BH01	2/4/2025	14	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,200
BH01	2/4/2025	16	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,620
BH01	2/24/2025	18	<0.0250	<0.0500	<20.0	56.5	50.4	56.5	106.9	613
BH01	2/24/2025	20	<0.0250	<0.0500	<20.0	59.1	<50.0	59.1	59.1	2,610
BH01	2/24/2025	22	<0.0250	<0.0500	<20.0	42.6	<50.0	42.6	42.6	3,020
BH01	3/14/2025	25	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,470
BH01	3/14/2025	30	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,200
BH01	3/14/2025	35	<0.0250	<0.0500	<20.0	55	<50.0	55	55	3,580
BH01	3/14/2025	40	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<55.0	3,610
BH01	3/14/2025	45	<0.0250	<0.0500	<20.0	41.6	<50.0	41.6	41.6	3,130
BH01	3/14/2025	50	<0.0250	<0.0500	<20.0	46.6	<50.0	46.6	46.6	3,400
BH01	3/14/2025	55	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,230
BH01	3/14/2025	60	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,630



TABLE 1 - CONT'D
SOIL SAMPLE ANALYTICAL RESULTS
 Woolhead CTB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
BH02	1/14/2025	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,670
BH02	1/14/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	10,300
BH02	1/14/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,690
BH02	1/14/2025	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,150

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
 Woolhead CTB
 Matador Production Company
 Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Floor Soil Samples										
FS01	5/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,470
FS02	5/14/2025	0.5	<0.0250	<0.0500	<20.0	39.5	51.4	39.5	90.9	2,280
FS03	5/14/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,510
FS04	5/14/2025	0.5	<0.0250	<0.0500	<20.0	191	152	191	343	2,210
FS05	5/14/2025	0.5	<0.0250	<0.0500	<20.0	287	226	287	513	1,060
FS06	5/14/2025	0.5	<0.0250	0.0505	<20.0	70.3	64.3	70.3	135	2,880
FS07	5/14/2025	0.5	<0.0250	0.0533	<20.0	78.9	81.2	78.9	160	1,170
Excavation Sidewall Soil Samples										
SW01	5/12/2025	0-4	<0.0250	<0.0500	<20.0	39.8	<50.0	<25.0	<50.0	421

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

<: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



APPENDIX A

Well Log and Record



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (TW-1)		WELL TAG ID NO. n/a		OSE FILE NO(S). CP-1880			
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700			
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Suite 950				CITY Houston	STATE TX	ZIP 77077	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 27	SECONDS 30.43 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE 103	35	22.44 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE NE Sec. 30 T21S R33E								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 10/08/2021	DRILLING ENDED 10/08/2021	DEPTH OF COMPLETED WELL (FT) temporary well material		BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	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						
	0	105	±6.5	Boring- HSA	-	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	CP-1880	POD NO.	1	TRN NO.	609464
LOCATION	21S. 33E. 20. 443		WELL TAG ID NO.	PAGE 1 OF 2	

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	9	9	Caliche, with fine-grained sand, White/Tan	Y ✓ N	
	9	19	10	Sand, Fine-grained, poorly graded, with Caliche, Tan/ Brown	Y ✓ N	
	19	105	86	Sand, Fine-grained, poorly graded, Tan/ Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface.		
USE ON NOV 2 2021 AM 9:16		
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt		


6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	DATE
	Jackie D. Atkins	10/29/2021
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	DATE


FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO		PAGE 2 OF 2





APPENDIX B


Lithologic Soil Sampling Logs


 ENSOLUM		Sample Name: BH01		Date: 1/14/25				
		Site Name: Woolhead CTB						
		Incident Number: 03A2270066						
		Job Number: nAPP2500853952						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.458409, -103.591470			Logged By: Bowan Simmons		Method: Hand Auger			
			Hole Diameter: 6"		Total Depth: 6.5'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	>3,494		Y	BH01	0	0	SW-SM	0-6.5' - Silty Sand with trace Gravel - Medium to light brown, Medium to fine grained with some very fine silt and trace small gravel, unconsolidated, moist, nonplastic, noncohesive, massive, well graded, sharp
M	>3,494		N	BH01	1	1		
M	>3,494		N	BH01	2	2		
M	>3,494		N	BH01	3	3		
M	>3,494		N	BH01	4	4		
M	>3,590		N	BH01	5	5		
M	>3,590		N	BH01	6	6		
M	>3,590		N	BH01	6.5	6.5		
						7	SW-SM	6.5-16' - Silty Sand with trace Gravel - Medium to light brown, Medium to fine grained with some very fine silt and trace small gravel, Lightly to moderately consolidated, moist, nonplastic, noncohesive, massive, well graded, sharp
M	3,590		N	BH01	8	8		
						9		
M	2,862		N	BH01	10	10		
						11		
M	2,296		N	BH01	12	12		


								Sample Name: BH01		Date: 1/14/25	
								Site Name: Woolhead CTB			
								Incident Number: 03A2270066			
								Job Number: nAPP2500853952			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Bowan Simmons		Method: Hand Auger	
Coordinates: 32.458409, -103.591470								Hole Diameter: 6"		Total Depth: 6.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M	2,296		Y	BH01	12	12	SW-SM	6.5-16' - Silty Sand with trace Gravel - Medium to light brown, Medium to fine grained with some very fine silt and trace small to large gravel, Lightly to moderately consolidated, moist, nonplastic, noncohesive, massive, well graded, sharp			
			N	BH01		13					
M	2,296		N	BH01	14	14					
			N	BH01		15					
D	1,266		N	BH01	16	16	CH	16-20' - Sandy Clay - Hard, Red to light red with green-grey nodules, very fine to fine, dry, medium plasticity, cohesive, massive, well graded, sharp			
						17					
D	717		N	BH01	18	18					
						19					
D	2,979		N	BH01	20	20	SW	20-34.5' - Sand - Red to light red , very fine to fine, dry, non-plastic, noncohesive, massive, poorly graded, gradational			
						21					
D	>3,455		N	BH01	22	22					
						23					
					24	24					

 ENSOLUM		Sample Name: BH01		Date: 1/14/25				
		Site Name: Woolhead CTB						
		Incident Number: 03A2270066						
		Job Number: nAPP2500853952						
LITHOLOGIC / SOIL SAMPLING LOG		Logged By: Bowan Simmons		Method: Hand Auger				
Coordinates: 32.458409, -103.591470		Hole Diameter: 6"		Total Depth: 6.5'				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N	BH01	25	24	SW	20-34.5' - Sand - Red to light red , very fine to fine, dry, non-plastic, noncohesive, massive, poorly graded, gradational
						25		
						26		
						27		
						28		
D			N	BH01	30	29	SW	
						30		
						31		
						32		
						33		
D			N	BH01	35	34	SW	34.5-54.5' - Sand - Dark red to red , very fine to fine, dry, non-plastic, noncohesive, massive, poorly graded, gradational
						35		
						36		

 ENSOLUM		Sample Name: BH01		Date: 1/14/25				
		Site Name: Woolhead CTB						
		Incident Number: 03A2270066						
		Job Number: nAPP2500853952						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.458409, -103.591470		Logged By: Bowan Simmons		Method: Hand Auger				
		Hole Diameter: 6"		Total Depth: 6.5'				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N	BH01	40	36	SW	34.5-54.5' - Sand - Dark red to red , very fine to fine, dry, non-plastic, noncohesive, massive, poorly graded, gradational
						37		
						38		
						39		
						40		
D			N	BH01	45	41		
						42		
						43		
						44		
						45		
						46		
						47		
						48		

 ENSOLUM		Sample Name: BH01		Date: 1/14/25				
		Site Name: Woolhead CTB						
		Incident Number: 03A2270066						
		Job Number: nAPP2500853952						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.458409, -103.591470		Logged By: Bowan Simmons		Method: Hand Auger				
		Hole Diameter: 6"		Total Depth: 6.5'				
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N	BH01	50	48	SW	34.5-54.5' - Sand - Dark red to red , very fine to fine, dry, non-plastic, noncohesive, massive, poorly graded, gradational
						49		
						50		
						51		
						52		
D			N	BH01	55	53	SC	Transitional Zone 54.5'-59.5' - Clayey Sand - Dark red to red , very fine to fine with some fat clay nodules, dry, non-plastic, noncohesive, massive, poorly graded, gradational
						54		
						55		
						56		
						57		
D			N	BH01	60	58	CH	59.5-65' - Clayey Sand - See description on next page.
						59		
						60		

 ENSOLUM		Sample Name: BH01		Date: 1/14/25				
		Site Name: Woolhead CTB						
		Incident Number: 03A2270066						
		Job Number: nAPP2500853952						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.458409, -103.591470			Logged By: Bowan Simmons		Method: Hand Auger			
			Hole Diameter: 6"		Total Depth: 6.5'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D			N	BH01	60	60	CH	59.5-65' - Sandy Clay - Dark red to purple , fat clay with some very fine to fine sand, dry, low plastic, cohesive, massive, poorly graded, gradational
						61		
						62		
						63		
						64		
D			N	BH01	65	65		
Total Depth @ 65 feet bgs.								

 ENSOLUM		Sample Name: BH02		Date: 1/14/25				
		Site Name: Woolhead CTB						
		Incident Number: 03A2270066						
		Job Number: nAPP2500853952						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.458571, -103.591520			Logged By: Bowan Simmons		Method: Hand Auger			
			Hole Diameter: 6"		Total Depth: 5'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	>3,590		N	BH02	0	0	SW-SM	Silty Sand with trace Gravel - Medium to light brown, Medium to fine grained with some very fine silt and trace small gravel, unconsolidated, moist, nonplastic, noncohesive, massive, well graded, sharp
M	>3,590		N	BH02	1	1		
M	>3,590		N	BH02	2	2		
M	>3,590		N	BH02	3	3		
M	>3,590		N	BH02	4	4		
M	>3,590		N	BH02	5	5		
Total Depth @ 5 feet bgs.								



APPENDIX C

Photographic Log



Photographic Log

Matador Production Company

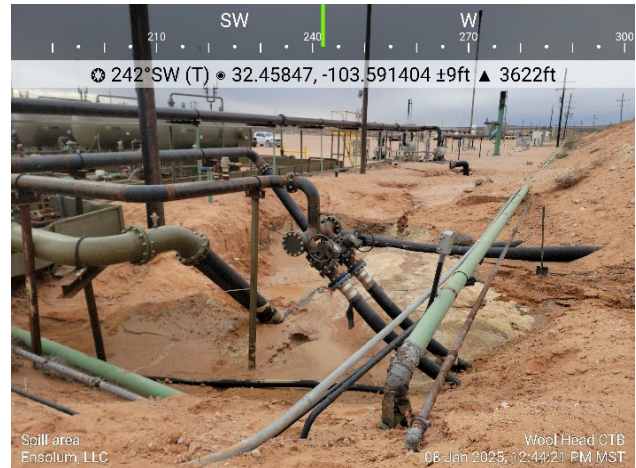
Woolhead CTB

nAPP2500853952



Photograph 1
Description: Spill area
View: West

Date: 1/8/2025



Photograph 2
Description: Spill area
View: Southwest

Date: 1/8/2025



Photograph 3
Description: Spill area
View: Northwest

Date: 1/8/2025



Photograph 4
Description: Spill area
View: Southwest

Date: 1/8/2025

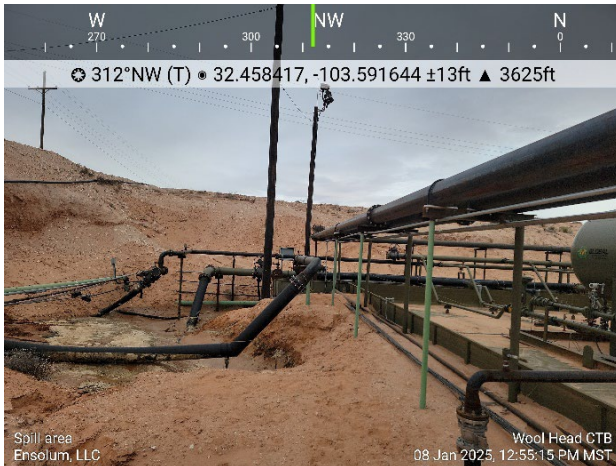


Photographic Log

Matador Production Company

Woolhead CTB

nAPP2500853952



Photograph 5

Date: 1/8/2025

Description: Spill area

View: Northwest

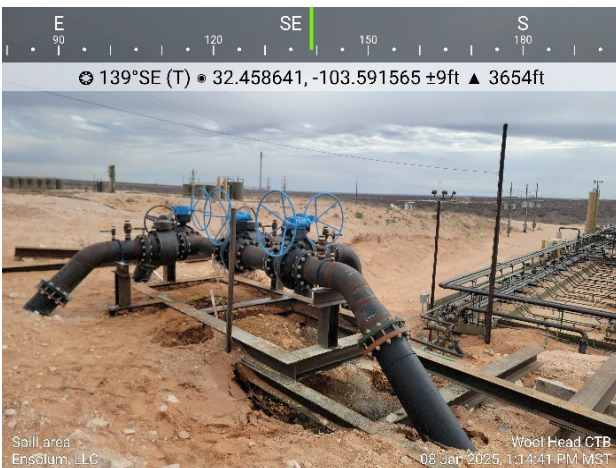


Photograph 6

Date: 1/8/2025

Description: Spill area

View: West



Photograph 7

Date: 1/8/2025

Description: Spill area

View: Southeast



Photograph 8

Date: 1/8/2025

Description: Spill area

View: South



Photographic Log

Matador Production Company

Woolhead CTB

nAPP2500853952



Photograph 9

Date: 1/14/2025

Description: BH01

View: South

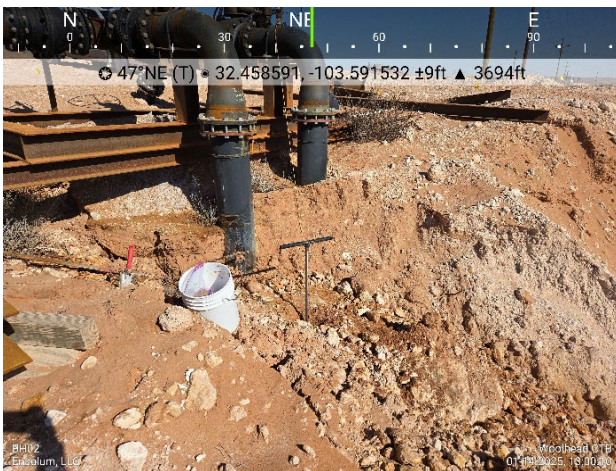


Photograph 10

Date: 1/14/2025

Description: BH02

View: East

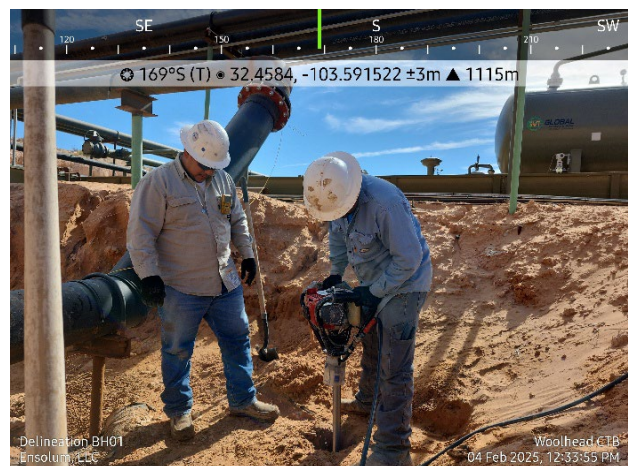


Photograph 11

Date: 1/14/2025

Description: BH02

View: Northeast



Photograph 12

Date: 2/4/2025

Description: Delineation BH01

View: South

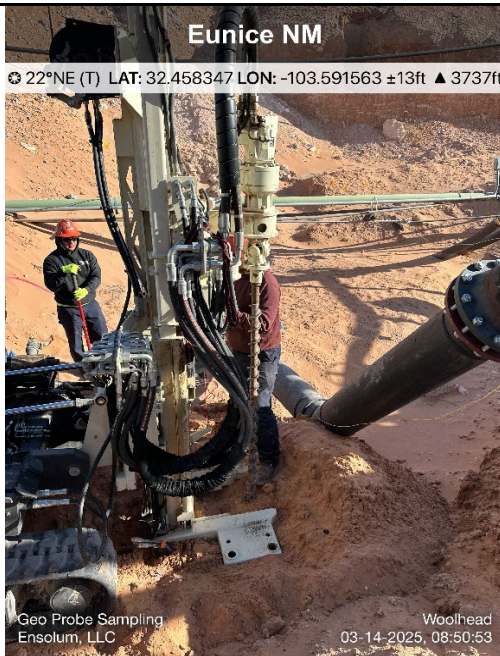


Photographic Log

Matador Production Company

Woolhead CTB

nAPP2500853952

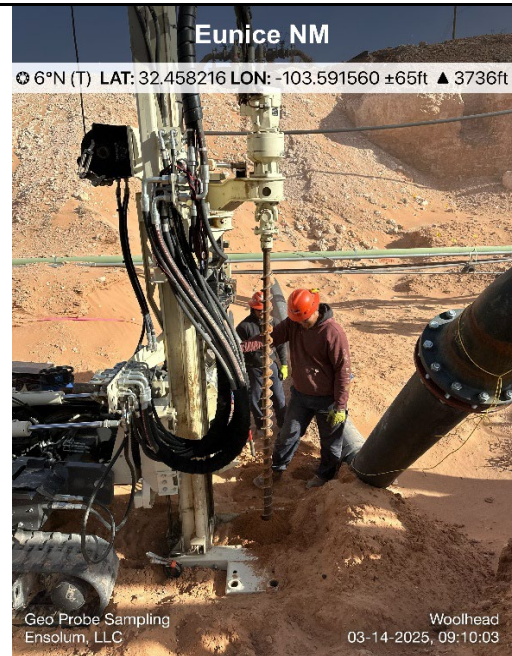


Photograph 13

Date: 3/14/2025

Description: Delineation (BH01)

View: Northeast



Photograph 14

Date: 3/14/2025

Description: Delineation (BH01)

View: Northeast

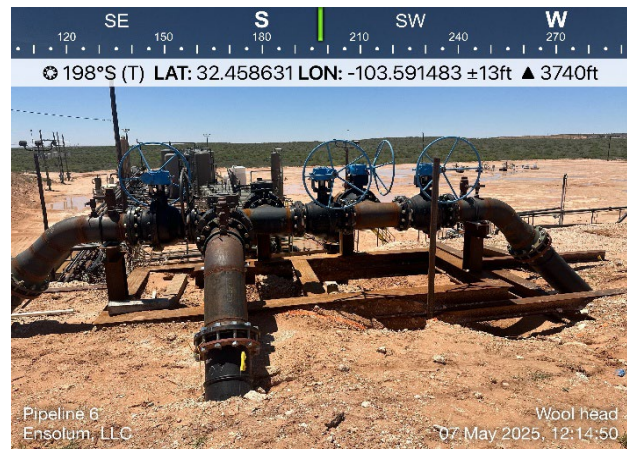


Photograph 15

Date: 5/7/2025

Description: Excavation Activities

View: Northwest



Photograph 16

Date: 5/7/2025

Description: Excavation Activities

View: South

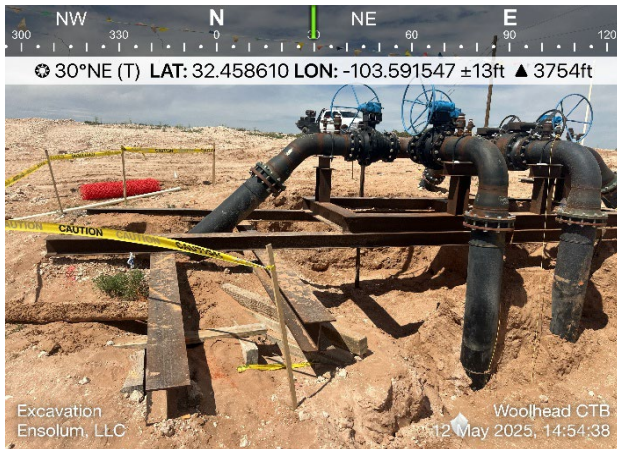


Photographic Log

Matador Production Company

Woolhead CTB

nAPP2500853952

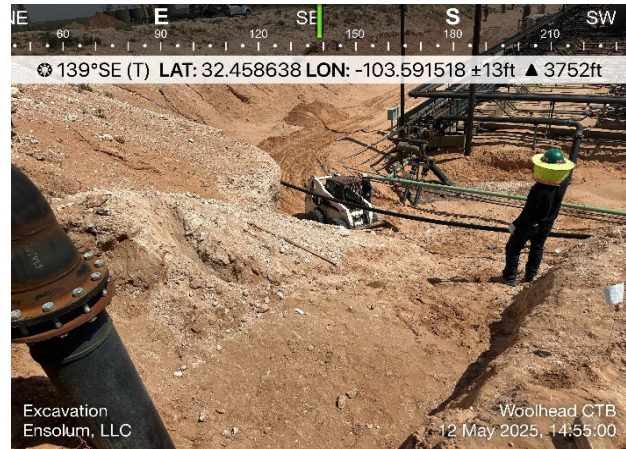


Photograph 17

Date: 5/12/2025

Description: Excavation Activities

View: Northeast

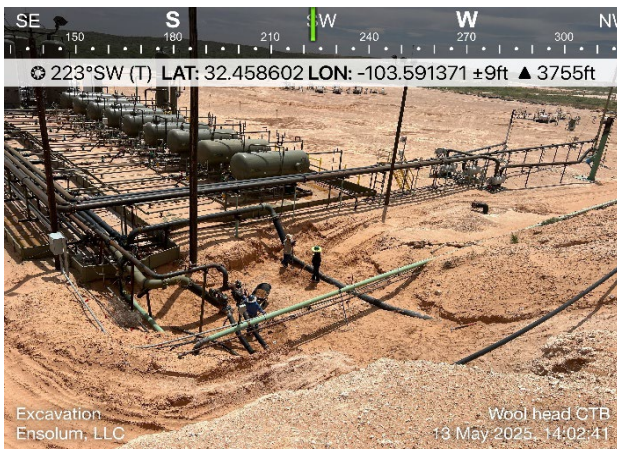


Photograph 18

Date: 5/12/2025

Description: Excavation Activities

View: Southeast

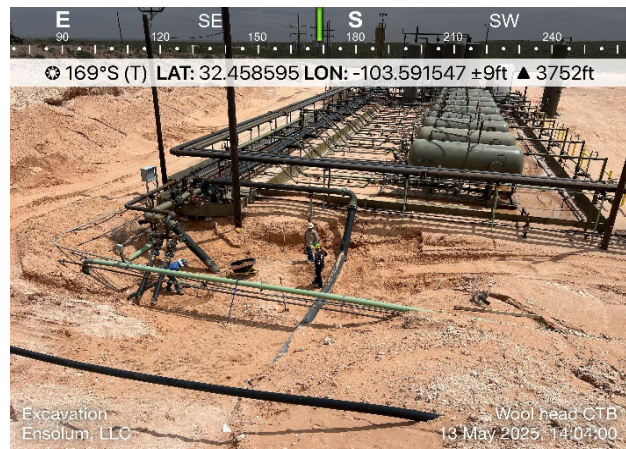


Photograph 19

Date: 5/13/2025

Description: Excavation Activities

View: Southwest



Photograph 20

Date: 5/13/2025

Description: Excavation Activities

View: South



Photographic Log

Matador Production Company

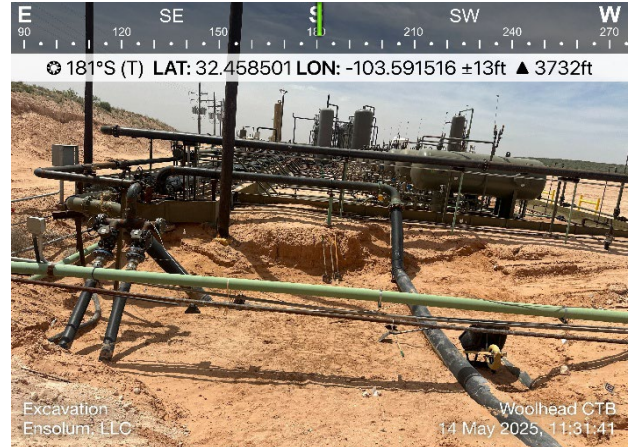
Woolhead CTB

nAPP2500853952



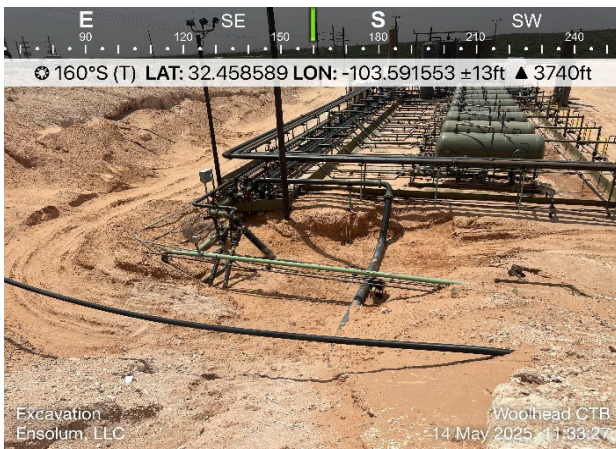
Photograph 21
Description: Excavation Area
View: Southwest

Date: 5/14/2025



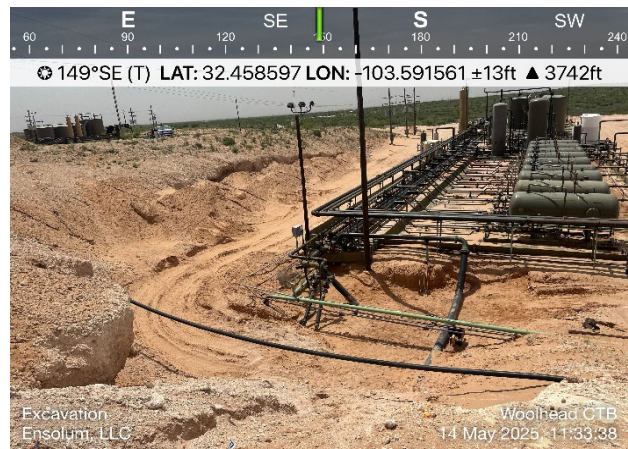
Photograph 22
Description: Excavation Area
View: South

Date: 5/14/2025



Photograph 23
Description: Excavation Area
View: South

Date: 5/14/2025



Photograph 24
Description: Excavation Area
View: Southeast

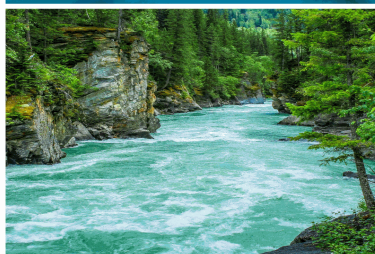
Date: 5/14/2025



APPENDIX D

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: Wool Head CTB

Work Order: E501056

Job Number: 23003-0002

Received: 1/10/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/13/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 1/13/25

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



Project Name: Wool Head CTB
Workorder: E501056
Date Received: 1/10/2025 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/10/2025 8:00:00AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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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Cell: 505-947-8222
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Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - GRO	9
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 01/13/25 11:43
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E501056-01A	Soil	01/08/25	01/10/25	Glass Jar, 2 oz.
SS02-0'	E501056-02A	Soil	01/08/25	01/10/25	Glass Jar, 2 oz.
SS03-0'	E501056-03A	Soil	01/08/25	01/10/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 1/13/2025 11:43:18AM
---	---	-----------------------------------

SS01-0'
E501056-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2502098	
Benzene	ND	0.0250	1	01/10/25	01/10/25	
Ethylbenzene	ND	0.0250	1	01/10/25	01/10/25	
Toluene	ND	0.0250	1	01/10/25	01/10/25	
o-Xylene	ND	0.0250	1	01/10/25	01/10/25	
p,m-Xylene	ND	0.0500	1	01/10/25	01/10/25	
Total Xylenes	ND	0.0250	1	01/10/25	01/10/25	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		01/10/25	01/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2502098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/10/25	01/10/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		01/10/25	01/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2502099	
Diesel Range Organics (C10-C28)	35.5	25.0	1	01/10/25	01/10/25	
Oil Range Organics (C28-C36)	68.0	50.0	1	01/10/25	01/10/25	
Surrogate: n-Nonane	116 %	50-200		01/10/25	01/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2502100	
Chloride	ND	20.0	1	01/10/25	01/10/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 1/13/2025 11:43:18AM
---	---	-----------------------------------

SS02-0'

E501056-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2502098	
Benzene	ND	0.0250	1	01/10/25	01/10/25	
Ethylbenzene	ND	0.0250	1	01/10/25	01/10/25	
Toluene	ND	0.0250	1	01/10/25	01/10/25	
o-Xylene	ND	0.0250	1	01/10/25	01/10/25	
p,m-Xylene	ND	0.0500	1	01/10/25	01/10/25	
Total Xylenes	ND	0.0250	1	01/10/25	01/10/25	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		01/10/25	01/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2502098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/10/25	01/10/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.2 %	70-130		01/10/25	01/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2502099	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/10/25	01/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/10/25	01/10/25	
Surrogate: n-Nonane	113 %	50-200		01/10/25	01/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2502100	
Chloride	ND	20.0	1	01/10/25	01/10/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 1/13/2025 11:43:18AM
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SS03-0'

E501056-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502098	
Benzene	ND	0.0250	1	01/10/25	01/10/25	
Ethylbenzene	ND	0.0250	1	01/10/25	01/10/25	
Toluene	ND	0.0250	1	01/10/25	01/10/25	
o-Xylene	ND	0.0250	1	01/10/25	01/10/25	
p,m-Xylene	ND	0.0500	1	01/10/25	01/10/25	
Total Xylenes	ND	0.0250	1	01/10/25	01/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.7 %	70-130		01/10/25	01/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2502098	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/10/25	01/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		01/10/25	01/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2502099	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/10/25	01/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/10/25	01/10/25	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		01/10/25	01/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: AK		Batch: 2502100	
Chloride	161	20.0	1	01/10/25	01/10/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/13/2025 11:43:18AM

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 (2502098-BLK1)

Prepared: 01/10/25 Analyzed: 01/10/25

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	6.70		8.00		83.8	70-130			

LCS (2502098-BS1)

Prepared: 01/10/25 Analyzed: 01/10/25

Benzene	4.84	0.0250	5.00		96.7	70-130			
Ethylbenzene	4.76	0.0250	5.00		95.1	70-130			
Toluene	4.84	0.0250	5.00		96.7	70-130			
o-Xylene	4.73	0.0250	5.00		94.6	70-130			
p,m-Xylene	9.67	0.0500	10.0		96.7	70-130			
Total Xylenes	14.4	0.0250	15.0		96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.86		8.00		85.7	70-130			

LCS Dup (2502098-BSD1)

Prepared: 01/10/25 Analyzed: 01/10/25

Benzene	4.58	0.0250	5.00		91.5	70-130	5.50	20	
Ethylbenzene	4.49	0.0250	5.00		89.9	70-130	5.70	20	
Toluene	4.56	0.0250	5.00		91.2	70-130	5.85	20	
o-Xylene	4.48	0.0250	5.00		89.6	70-130	5.48	20	
p,m-Xylene	9.16	0.0500	10.0		91.6	70-130	5.49	20	
Total Xylenes	13.6	0.0250	15.0		90.9	70-130	5.49	20	
Surrogate: 4-Bromochlorobenzene-PID	7.00		8.00		87.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/13/2025 11:43:18AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2502098-BLK1) Prepared: 01/10/25 Analyzed: 01/10/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

LCS (2502098-BS2) Prepared: 01/10/25 Analyzed: 01/10/25

Gasoline Range Organics (C6-C10)	36.9	20.0	50.0		73.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

LCS Dup (2502098-BSD2) Prepared: 01/10/25 Analyzed: 01/10/25

Gasoline Range Organics (C6-C10)	44.6	20.0	50.0		89.1	70-130	18.7	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/13/2025 11:43:18AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2502099-BLK1)					Prepared: 01/10/25 Analyzed: 01/10/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			

LCS (2502099-BS1)					Prepared: 01/10/25 Analyzed: 01/10/25				
Diesel Range Organics (C10-C28)	244	25.0	250		97.6	38-132			
Surrogate: n-Nonane	47.4		50.0		94.7	50-200			

LCS Dup (2502099-BSD1)					Prepared: 01/10/25 Analyzed: 01/10/25				
Diesel Range Organics (C10-C28)	241	25.0	250		96.3	38-132	1.32	20	
Surrogate: n-Nonane	50.4		50.0		101	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 1/13/2025 11:43:18AM
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Anions by EPA 300.0/9056A

Analyst: JM

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 (2502100-BLK1)					Prepared: 01/10/25 Analyzed: 01/10/25				
Chloride	ND	20.0							
LCS (2502100-BS1)					Prepared: 01/10/25 Analyzed: 01/10/25				
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2502100-MS1)					Source: E501055-02		Prepared: 01/10/25 Analyzed: 01/10/25		
Chloride	386	40.0	250	151	93.9	80-120			
Matrix Spike Dup (2502100-MSD1)					Source: E501055-02		Prepared: 01/10/25 Analyzed: 01/10/25		
Chloride	408	40.0	250	151	103	80-120	5.44	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/13/25 11:43

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

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

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



Page 1 of 1



Envirotech Analytical Laboratory

Printed: 1/10/2025 8:52:48AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	01/10/25 08:00	Work Order ID:	E501056
Phone:	(972) 371-5200	Date Logged In:	01/09/25 14:23	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	01/16/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

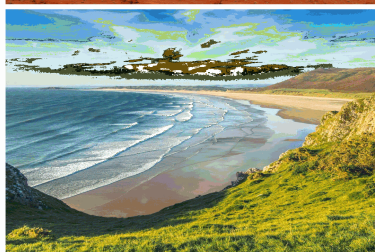
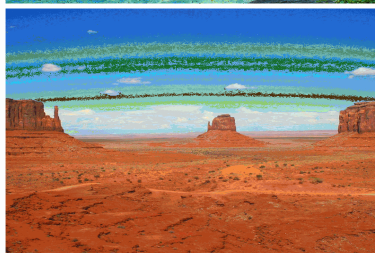
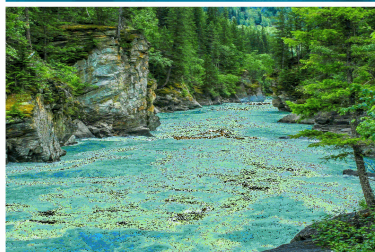
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E501101

Job Number: 23003-0002

Received: 1/17/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/22/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 1/22/25

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



Project Name: Wool Head CTB
Workorder: E501101
Date Received: 1/17/2025 8:15:11AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/17/2025 8:15:11AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 01/22/25 12:28
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS04-0'	E501101-01A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH01-0'	E501101-02A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH01-1'	E501101-03A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH01-3'	E501101-04A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH01-5'	E501101-05A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH01-6.5'	E501101-06A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH02-0'	E501101-07A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH02-1'	E501101-08A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH02-3'	E501101-09A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.
BH02-5'	E501101-10A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

SS04-0'

E501101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/18/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/18/25	
Toluene	ND	0.0250	1	01/17/25	01/18/25	
o-Xylene	ND	0.0250	1	01/17/25	01/18/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/18/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/18/25	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	01/17/25	01/18/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	01/17/25	01/18/25	
<i>Surrogate: Toluene-d8</i>		97.1 %	70-130	01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/18/25	
<i>Surrogate: Bromofluorobenzene</i>		95.9 %	70-130	01/17/25	01/18/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.0 %	70-130	01/17/25	01/18/25	
<i>Surrogate: Toluene-d8</i>		97.1 %	70-130	01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
<i>Surrogate: n-Nonane</i>		119 %	50-200	01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	27.7	20.0	1	01/17/25	01/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

BH01-0'

E501101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/18/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/18/25	
Toluene	ND	0.0250	1	01/17/25	01/18/25	
o-Xylene	ND	0.0250	1	01/17/25	01/18/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/18/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	93.8 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	95.1 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	93.8 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	95.1 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	121 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	4660	40.0	2	01/17/25	01/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

BH01-1'

E501101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/18/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/18/25	
Toluene	ND	0.0250	1	01/17/25	01/18/25	
o-Xylene	ND	0.0250	1	01/17/25	01/18/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/18/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	95.5 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	95.2 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	95.5 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	95.2 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	27.4	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	133 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	7720	100	5	01/17/25	01/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

BH01-3'

E501101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/18/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/18/25	
Toluene	ND	0.0250	1	01/17/25	01/18/25	
o-Xylene	ND	0.0250	1	01/17/25	01/18/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/18/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	97.1 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	96.7 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	97.1 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	96.7 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	117 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	3690	40.0	2	01/17/25	01/17/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 1/22/2025 12:28:29PM
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BH01-5'

E501101-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/18/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/18/25	
Toluene	ND	0.0250	1	01/17/25	01/18/25	
o-Xylene	ND	0.0250	1	01/17/25	01/18/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/18/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	95.5 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	97.2 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	95.5 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	97.2 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	127 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	3280	40.0	2	01/17/25	01/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

BH01-6.5'

E501101-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/18/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/18/25	
Toluene	ND	0.0250	1	01/17/25	01/18/25	
o-Xylene	ND	0.0250	1	01/17/25	01/18/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/18/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	97.0 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	96.8 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/18/25	
Surrogate: Bromofluorobenzene	97.0 %	70-130		01/17/25	01/18/25	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		01/17/25	01/18/25	
Surrogate: Toluene-d8	96.8 %	70-130		01/17/25	01/18/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	126 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	3860	40.0	2	01/17/25	01/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

BH02-0'

E501101-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/19/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/19/25	
Toluene	0.0260	0.0250	1	01/17/25	01/19/25	
o-Xylene	ND	0.0250	1	01/17/25	01/19/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/19/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/19/25	
Surrogate: Bromofluorobenzene	97.7 %	70-130		01/17/25	01/19/25	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		01/17/25	01/19/25	
Surrogate: Toluene-d8	98.1 %	70-130		01/17/25	01/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/19/25	
Surrogate: Bromofluorobenzene	97.7 %	70-130		01/17/25	01/19/25	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		01/17/25	01/19/25	
Surrogate: Toluene-d8	98.1 %	70-130		01/17/25	01/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	137 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	4670	40.0	2	01/17/25	01/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

BH02-1'

E501101-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/19/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/19/25	
Toluene	ND	0.0250	1	01/17/25	01/19/25	
o-Xylene	ND	0.0250	1	01/17/25	01/19/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/19/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/19/25	
Surrogate: Bromofluorobenzene	98.5 %	70-130		01/17/25	01/19/25	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		01/17/25	01/19/25	
Surrogate: Toluene-d8	96.5 %	70-130		01/17/25	01/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/19/25	
Surrogate: Bromofluorobenzene	98.5 %	70-130		01/17/25	01/19/25	
Surrogate: 1,2-Dichloroethane-d4	97.3 %	70-130		01/17/25	01/19/25	
Surrogate: Toluene-d8	96.5 %	70-130		01/17/25	01/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	118 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	10300	200	10	01/17/25	01/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

BH02-3'

E501101-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/19/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/19/25	
Toluene	ND	0.0250	1	01/17/25	01/19/25	
o-Xylene	ND	0.0250	1	01/17/25	01/19/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/19/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/19/25	
Surrogate: Bromofluorobenzene	96.8 %	70-130		01/17/25	01/19/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		01/17/25	01/19/25	
Surrogate: Toluene-d8	95.2 %	70-130		01/17/25	01/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/19/25	
Surrogate: Bromofluorobenzene	96.8 %	70-130		01/17/25	01/19/25	
Surrogate: 1,2-Dichloroethane-d4	99.4 %	70-130		01/17/25	01/19/25	
Surrogate: Toluene-d8	95.2 %	70-130		01/17/25	01/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	133 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	7690	100	5	01/17/25	01/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/22/2025 12:28:29PM

BH02-5'

E501101-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Benzene	ND	0.0250	1	01/17/25	01/19/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/19/25	
Toluene	ND	0.0250	1	01/17/25	01/19/25	
o-Xylene	ND	0.0250	1	01/17/25	01/19/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/19/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/19/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		01/17/25	01/19/25	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		01/17/25	01/19/25	
Surrogate: Toluene-d8	97.1 %	70-130		01/17/25	01/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2503100
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/19/25	
Surrogate: Bromofluorobenzene	97.6 %	70-130		01/17/25	01/19/25	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		01/17/25	01/19/25	
Surrogate: Toluene-d8	97.1 %	70-130		01/17/25	01/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2503095
Diesel Range Organics (C10-C28)	ND	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
Surrogate: n-Nonane	132 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2503108
Chloride	7150	100	5	01/17/25	01/17/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/22/2025 12:28:29PM

Volatile Organic Compounds by EPA 8260B

Analyst: BA

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

Blank (2503100-BLK1) Prepared: 01/17/25 Analyzed: 01/18/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.472		0.500		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

LCS (2503100-BS1) Prepared: 01/17/25 Analyzed: 01/18/25

Benzene	2.48	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.26	0.0250	2.50		90.4	70-130			
Toluene	2.29	0.0250	2.50		91.4	70-130			
o-Xylene	2.19	0.0250	2.50		87.8	70-130			
p,m-Xylene	4.45	0.0500	5.00		89.0	70-130			
Total Xylenes	6.64	0.0250	7.50		88.6	70-130			
Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.474		0.500		94.8	70-130			

Matrix Spike (2503100-MS1) Source: E501100-10 Prepared: 01/17/25 Analyzed: 01/18/25

Benzene	2.52	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.32	0.0250	2.50	ND	92.6	45-135			
Toluene	2.33	0.0250	2.50	ND	93.3	48-130			
o-Xylene	2.30	0.0250	2.50	ND	92.0	43-135			
p,m-Xylene	4.63	0.0500	5.00	ND	92.7	43-135			
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		0.500		101	70-130			
Surrogate: Toluene-d8	0.475		0.500		95.0	70-130			

Matrix Spike Dup (2503100-MSD1) Source: E501100-10 Prepared: 01/17/25 Analyzed: 01/18/25

Benzene	2.50	0.0250	2.50	ND	99.9	48-131	0.837	23	
Ethylbenzene	2.30	0.0250	2.50	ND	92.0	45-135	0.715	27	
Toluene	2.31	0.0250	2.50	ND	92.5	48-130	0.926	24	
o-Xylene	2.26	0.0250	2.50	ND	90.4	43-135	1.75	27	
p,m-Xylene	4.58	0.0500	5.00	ND	91.7	43-135	1.10	27	
Total Xylenes	6.84	0.0250	7.50	ND	91.3	43-135	1.31	27	
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.3	70-130			
Surrogate: Toluene-d8	0.476		0.500		95.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/22/2025 12:28:29PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2503100-BLK1)

Prepared: 01/17/25 Analyzed: 01/18/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.472		0.500		94.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

LCS (2503100-BS2)

Prepared: 01/17/25 Analyzed: 01/18/25

Gasoline Range Organics (C6-C10)	49.1	20.0	50.0		98.2	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			

Matrix Spike (2503100-MS2)

Source: E501100-10

Prepared: 01/17/25 Analyzed: 01/18/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0	ND	89.5	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.5	70-130			

Matrix Spike Dup (2503100-MSD2)

Source: E501100-10

Prepared: 01/17/25 Analyzed: 01/18/25

Gasoline Range Organics (C6-C10)	36.8	20.0	50.0	ND	73.6	70-130	19.4	20	
Surrogate: Bromofluorobenzene	0.487		0.500		97.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.487		0.500		97.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/22/2025 12:28:29PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

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 (2503095-BLK1)					Prepared: 01/17/25 Analyzed: 01/17/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.5		50.0		117	50-200			

LCS (2503095-BS1)					Prepared: 01/17/25 Analyzed: 01/18/25				
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
Surrogate: n-Nonane	58.9		50.0		118	50-200			

Matrix Spike (2503095-MS1)					Source: E501100-04		Prepared: 01/17/25 Analyzed: 01/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	61.6		50.0		123	50-200			

Matrix Spike Dup (2503095-MSD1)					Source: E501100-04		Prepared: 01/17/25 Analyzed: 01/18/25		
Diesel Range Organics (C10-C28)	270	25.0	250	ND	108	38-132	0.325	20	
Surrogate: n-Nonane	62.4		50.0		125	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/22/2025 12:28:29PM

Anions by EPA 300.0/9056A

Analyst: JM

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 (2503108-BLK1)					Prepared: 01/17/25 Analyzed: 01/17/25				
Chloride	ND	20.0							
LCS (2503108-BS1)					Prepared: 01/17/25 Analyzed: 01/17/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2503108-MS1)					Source: E501100-10		Prepared: 01/17/25 Analyzed: 01/17/25		
Chloride	19000	200	250	16600	966	80-120			M4
Matrix Spike Dup (2503108-MSD1)					Source: E501100-10		Prepared: 01/17/25 Analyzed: 01/17/25		
Chloride	17700	200	250	16600	424	80-120	7.38	20	M4

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/22/25 12:28

- 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

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: Woolhead CTB				Address: 3122 National Parks Hwy		E501101	230030002				X	X					
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information						Analysis and Method								EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
12:00	1/14/2025	S	1	SS04 - 0'		1						X					
10:57	1/14/2025	S	1	BH01 - 0'		2						X					
11:00	1/14/2025	S	1	BH01 - 1'		3						X					
11:07	1/14/2025	S	1	BH01 - 3'		4						X					
11:47	1/14/2025	S	1	BH01 - 5'		5						X					
11:57	1/14/2025	S	1	BH01 - 6.5'		6						X					
12:45	1/14/2025	S	1	BH02 - 0'		7						X					
12:50	1/14/2025	S	1	BH02 - 1'		8						X					
12:59	1/14/2025	S	1	BH02 - 3'		9						X					
13:36	1/14/2025	S	1	BH02 - 5'		10						X					
Additional Instructions: Held on Ice. Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@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: Bowan Simmons																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time										
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

Envirotech Analytical Laboratory

Printed: 1/17/2025 10:26:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	01/17/25 08:15	Work Order ID:	E501101
Phone:	(972) 371-5200	Date Logged In:	01/16/25 13:34	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	01/23/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

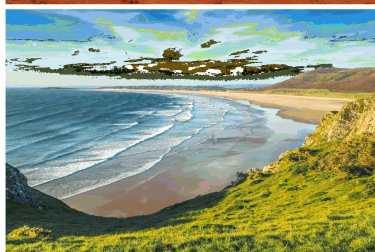
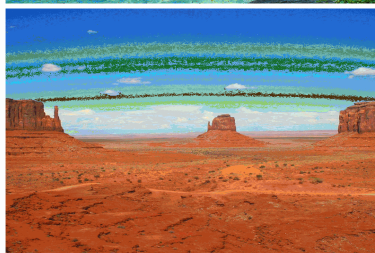
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E501097

Job Number: 23003-0002

Received: 1/17/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
1/23/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 1/23/25

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



Project Name: Wool Head CTB
Workorder: E501097
Date Received: 1/17/2025 8:15:11AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/17/2025 8:15:11AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/23/25 09:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01A-0'	E501097-01A	Soil	01/14/25	01/17/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
1/23/2025 9:49:45AM

SS01A-0'

E501097-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2503101	
Benzene	ND	0.0250	1	01/17/25	01/21/25	
Ethylbenzene	ND	0.0250	1	01/17/25	01/21/25	
Toluene	ND	0.0250	1	01/17/25	01/21/25	
o-Xylene	ND	0.0250	1	01/17/25	01/21/25	
p,m-Xylene	ND	0.0500	1	01/17/25	01/21/25	
Total Xylenes	ND	0.0250	1	01/17/25	01/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	86.8 %	70-130		01/17/25	01/21/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2503101	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/17/25	01/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.8 %	70-130		01/17/25	01/21/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2503109	
Diesel Range Organics (C10-C28)	28.1	25.0	1	01/17/25	01/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	01/17/25	01/18/25	
<i>Surrogate: n-Nonane</i>						
	114 %	50-200		01/17/25	01/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2503097	
Chloride	37.6	20.0	1	01/17/25	01/17/25	



Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/23/2025 9:49:45AM

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 (2503101-BLK1)Prepared: 01/17/25 Analyzed: 01/21/25

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	6.68		8.00		83.6	70-130			

LCS (2503101-BS1)Prepared: 01/17/25 Analyzed: 01/21/25

Benzene	4.50	0.0250	5.00		89.9	70-130			
Ethylbenzene	4.45	0.0250	5.00		89.0	70-130			
Toluene	4.53	0.0250	5.00		90.7	70-130			
o-Xylene	4.44	0.0250	5.00		88.9	70-130			
p,m-Xylene	9.08	0.0500	10.0		90.8	70-130			
Total Xylenes	13.5	0.0250	15.0		90.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.88		8.00		86.0	70-130			

Matrix Spike (2503101-MS1)Source: E501099-07Prepared: 01/17/25 Analyzed: 01/21/25

Benzene	4.50	0.0250	5.00	ND	90.1	54-133			
Ethylbenzene	4.43	0.0250	5.00	ND	88.7	61-133			
Toluene	4.52	0.0250	5.00	ND	90.5	61-130			
o-Xylene	4.45	0.0250	5.00	ND	89.0	63-131			
p,m-Xylene	9.05	0.0500	10.0	ND	90.5	63-131			
Total Xylenes	13.5	0.0250	15.0	ND	90.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.99		8.00		87.3	70-130			

Matrix Spike Dup (2503101-MSD1)Source: E501099-07Prepared: 01/17/25 Analyzed: 01/21/25

Benzene	4.75	0.0250	5.00	ND	94.9	54-133	5.23	20	
Ethylbenzene	4.67	0.0250	5.00	ND	93.3	61-133	5.09	20	
Toluene	4.75	0.0250	5.00	ND	95.1	61-130	4.99	20	
o-Xylene	4.64	0.0250	5.00	ND	92.8	63-131	4.22	20	
p,m-Xylene	9.51	0.0500	10.0	ND	95.1	63-131	4.98	20	
Total Xylenes	14.2	0.0250	15.0	ND	94.4	63-131	4.73	20	
Surrogate: 4-Bromochlorobenzene-PID	6.96		8.00		87.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/23/2025 9:49:45AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2503101-BLK1) Prepared: 01/17/25 Analyzed: 01/21/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		97.0	70-130			

LCS (2503101-BS2) Prepared: 01/17/25 Analyzed: 01/22/25

Gasoline Range Organics (C6-C10)	39.3	20.0	50.0		78.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2503101-MS2) Source: E501099-07 Prepared: 01/17/25 Analyzed: 01/21/25

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

Matrix Spike Dup (2503101-MSD2) Source: E501099-07 Prepared: 01/17/25 Analyzed: 01/21/25

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.1	70-130	4.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	1/23/2025 9:49:45AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2503109-BLK1)					Prepared: 01/17/25 Analyzed: 01/17/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.3		50.0		119	50-200			

LCS (2503109-BS1)					Prepared: 01/17/25 Analyzed: 01/17/25				
Diesel Range Organics (C10-C28)	256	25.0	250		102	38-132			
Surrogate: n-Nonane	54.9		50.0		110	50-200			

Matrix Spike (2503109-MS1)				Source: E501099-02		Prepared: 01/17/25 Analyzed: 01/17/25			
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	60.2		50.0		120	50-200			

Matrix Spike Dup (2503109-MSD1)				Source: E501099-02		Prepared: 01/17/25 Analyzed: 01/18/25			
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	0.654	20	
Surrogate: n-Nonane	59.1		50.0		118	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 1/23/2025 9:49:45AM
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Anions by EPA 300.0/9056A

Analyst: JM

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 (2503097-BLK1)					Prepared: 01/17/25 Analyzed: 01/17/25				
Chloride	ND	20.0							
LCS (2503097-BS1)					Prepared: 01/17/25 Analyzed: 01/17/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2503097-MS1)					Source: E501105-02		Prepared: 01/17/25 Analyzed: 01/17/25		
Chloride	284	100	250	ND	113	80-120			
Matrix Spike Dup (2503097-MSD1)					Source: E501105-02		Prepared: 01/17/25 Analyzed: 01/17/25		
Chloride	273	100	250	ND	109	80-120	3.74	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	01/23/25 09:49

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

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

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



Page 1 of 1



envirotecl 78 of 2

Envirotech Analytical Laboratory

Printed: 1/17/2025 10:24:01AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	01/17/25 08:15	Work Order ID:	E501097
Phone:	(972) 371-5200	Date Logged In:	01/16/25 13:16	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	01/23/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E502041

Job Number: 23003-0002

Received: 2/6/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/7/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 2/7/25

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



Project Name: Wool Head CTB
Workorder: E502041
Date Received: 2/6/2025 6:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/6/2025 6:00:00AM, under the Project Name: Wool Head CTB.

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

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

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

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

Respectfully,

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

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 02/07/25 14:33
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-8'	E502041-01A	Soil	02/04/25	02/06/25	Glass Jar, 2 oz.
BH01-10'	E502041-02A	Soil	02/04/25	02/06/25	Glass Jar, 2 oz.
BH01-12'	E502041-03A	Soil	02/04/25	02/06/25	Glass Jar, 2 oz.
BH01-14'	E502041-04A	Soil	02/04/25	02/06/25	Glass Jar, 2 oz.
BH01-16'	E502041-05A	Soil	02/04/25	02/06/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/7/2025 2:33:39PM
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BH01-8'
E502041-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Benzene	ND	0.0250	1	02/05/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/06/25	
Toluene	ND	0.0250	1	02/05/25	02/06/25	
o-Xylene	ND	0.0250	1	02/05/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/05/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/05/25	02/06/25	
Surrogate: 4-Bromochlorobenzene-PID	90.3 %	70-130		02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.7 %	70-130		02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2506085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/25	02/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/25	02/07/25	
Surrogate: n-Nonane	113 %	61-141		02/06/25	02/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2506082	
Chloride	3090	40.0	2	02/06/25	02/06/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
2/7/2025 2:33:39PM

BH01-10'

E502041-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Benzene	ND	0.0250	1	02/05/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/06/25	
Toluene	ND	0.0250	1	02/05/25	02/06/25	
o-Xylene	ND	0.0250	1	02/05/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/05/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/05/25	02/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.1 %	70-130	02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		86.0 %	70-130	02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2506085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/25	02/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/25	02/07/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	02/06/25	02/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2506082	
Chloride	2300	40.0	2	02/06/25	02/06/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/7/2025 2:33:39PM
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BH01-12'

E502041-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Benzene	ND	0.0250	1	02/05/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/06/25	
Toluene	ND	0.0250	1	02/05/25	02/06/25	
o-Xylene	ND	0.0250	1	02/05/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/05/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/05/25	02/06/25	
Surrogate: 4-Bromochlorobenzene-PID	90.7 %	70-130		02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.3 %	70-130		02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2506085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/25	02/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/25	02/07/25	
Surrogate: n-Nonane	117 %	61-141		02/06/25	02/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2506082	
Chloride	1920	20.0	1	02/06/25	02/06/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/7/2025 2:33:39PM
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BH01-14'

E502041-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Benzene	ND	0.0250	1	02/05/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/05/25	02/06/25	
Toluene	ND	0.0250	1	02/05/25	02/06/25	
o-Xylene	ND	0.0250	1	02/05/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/05/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/05/25	02/06/25	
Surrogate: 4-Bromochlorobenzene-PID	89.7 %	70-130		02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.8 %	70-130		02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2506085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/25	02/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/25	02/07/25	
Surrogate: n-Nonane	111 %	61-141		02/06/25	02/07/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2506082	
Chloride	2200	40.0	2	02/06/25	02/06/25	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 2/7/2025 2:33:39PM
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BH01-16'

E502041-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Benzene	ND	0.0250	1	02/06/25	02/06/25	
Ethylbenzene	ND	0.0250	1	02/06/25	02/06/25	
Toluene	ND	0.0250	1	02/06/25	02/06/25	
o-Xylene	ND	0.0250	1	02/06/25	02/06/25	
p,m-Xylene	ND	0.0500	1	02/06/25	02/06/25	
Total Xylenes	ND	0.0250	1	02/06/25	02/06/25	
Surrogate: 4-Bromochlorobenzene-PID	92.1 %	70-130		02/06/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2506084	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/05/25	02/06/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.1 %	70-130		02/05/25	02/06/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2506085	
Diesel Range Organics (C10-C28)	ND	25.0	1	02/06/25	02/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/06/25	02/06/25	
Surrogate: n-Nonane	110 %	61-141		02/06/25	02/06/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2506082	
Chloride	2620	40.0	2	02/06/25	02/06/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2025 2:33:39PM

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 (2506084-BLK1) Prepared: 02/05/25 Analyzed: 02/05/25

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	7.29		8.00		91.1	70-130			

LCS (2506084-BS1) Prepared: 02/05/25 Analyzed: 02/05/25

Benzene	5.55	0.0250	5.00		111	70-130			
Ethylbenzene	5.33	0.0250	5.00		107	70-130			
Toluene	5.45	0.0250	5.00		109	70-130			
o-Xylene	5.32	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.2	0.0250	15.0		108	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.41		8.00		92.6	70-130			

LCS Dup (2506084-BSD1) Prepared: 02/05/25 Analyzed: 02/05/25

Benzene	5.43	0.0250	5.00		109	70-130	2.05	20	
Ethylbenzene	5.23	0.0250	5.00		105	70-130	1.94	20	
Toluene	5.35	0.0250	5.00		107	70-130	2.02	20	
o-Xylene	5.24	0.0250	5.00		105	70-130	1.58	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	1.85	20	
Total Xylenes	15.9	0.0250	15.0		106	70-130	1.76	20	
Surrogate: 4-Bromochlorobenzene-PID	7.43		8.00		92.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2025 2:33:39PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2506084-BLK1) Prepared: 02/05/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.82		8.00		85.2	70-130			

LCS (2506084-BS2) Prepared: 02/05/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0		80.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.93		8.00		86.6	70-130			

LCS Dup (2506084-BSD2) Prepared: 02/05/25 Analyzed: 02/05/25

Gasoline Range Organics (C6-C10)	42.3	20.0	50.0		84.7	70-130	4.93	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2025 2:33:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2506085-BLK1)					Prepared: 02/06/25 Analyzed: 02/06/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	57.0		50.0		114	61-141			

LCS (2506085-BS1)					Prepared: 02/06/25 Analyzed: 02/06/25				
Diesel Range Organics (C10-C28)	298	25.0	250		119	66-144			
Surrogate: n-Nonane	58.3		50.0		117	61-141			

LCS Dup (2506085-BSD1)					Prepared: 02/06/25 Analyzed: 02/06/25				
Diesel Range Organics (C10-C28)	294	25.0	250		118	66-144	1.17	20	
Surrogate: n-Nonane	58.2		50.0		116	61-141			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	2/7/2025 2:33:39PM

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 (2506082-BLK1)					Prepared: 02/06/25 Analyzed: 02/06/25				
Chloride	ND	20.0							
LCS (2506082-BS1)					Prepared: 02/06/25 Analyzed: 02/06/25				
Chloride	254	20.0	250		102	90-110			
LCS Dup (2506082-BSD1)					Prepared: 02/06/25 Analyzed: 02/06/25				
Chloride	255	20.0	250		102	90-110	0.253	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	02/07/25 14:33

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

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

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



Page 1 of 1



Envirotech Analytical Laboratory

Printed: 2/6/2025 9:05:26AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	02/06/25 06:00	Work Order ID:	E502041
Phone:	(972) 371-5200	Date Logged In:	02/05/25 13:58	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	02/06/25 17:00 (0 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Client comments- Sample #5 This sample
24 hour rush.

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

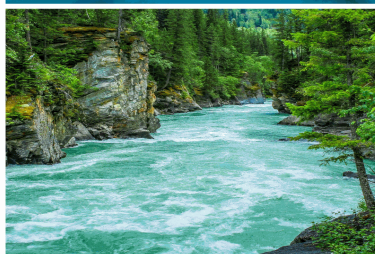
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E502247

Job Number: 23003-0002

Received: 2/26/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/4/25



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

Project Name: Wool Head CTB
Workorder: E502247
Date Received: 2/26/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2025 4:30:00AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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
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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/04/25 07:49

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-18'	E502247-01A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/4/2025 7:49:53AM
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BH01-18'

E502247-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2509065	
Benzene	ND	0.0250	1	02/26/25	02/27/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/27/25	
Toluene	ND	0.0250	1	02/26/25	02/27/25	
o-Xylene	ND	0.0250	1	02/26/25	02/27/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/27/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/27/25	
Surrogate: 4-Bromochlorobenzene-PID	82.5 %	70-130		02/26/25	02/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2509065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		02/26/25	02/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2509077	
Diesel Range Organics (C10-C28)	56.5	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	50.4	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	103 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2509069	
Chloride	613	20.0	1	02/26/25	02/26/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:49:53AM

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 (2509065-BLK1) Prepared: 02/26/25 Analyzed: 02/27/25

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	6.81		8.00		85.1	70-130			

LCS (2509065-BS1) Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.07	0.0250	5.00		101	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.69		8.00		83.6	70-130			

Matrix Spike (2509065-MS1) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.26	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.21	0.0250	5.00	ND	104	61-130			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.92		8.00		86.5	70-130			

Matrix Spike Dup (2509065-MSD1) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.68	0.0250	5.00	ND	114	54-133	7.60	20	
Ethylbenzene	5.48	0.0250	5.00	ND	110	61-133	7.54	20	
Toluene	5.61	0.0250	5.00	ND	112	61-130	7.40	20	
o-Xylene	5.44	0.0250	5.00	ND	109	63-131	7.54	20	
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131	7.50	20	
Total Xylenes	16.6	0.0250	15.0	ND	110	63-131	7.51	20	
Surrogate: 4-Bromochlorobenzene-PID	6.73		8.00		84.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:49:53AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2509065-BLK1) Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

LCS (2509065-BS2) Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			

Matrix Spike (2509065-MS2) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2509065-MSD2) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.9	70-130	6.40	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:49:53AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2509077-BLK1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	61-141			

LCS (2509077-BS1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	52.1		50.0		104	61-141			

Matrix Spike (2509077-MS1)					Source: E502247-01		Prepared: 02/26/25 Analyzed: 02/26/25		
Diesel Range Organics (C10-C28)	363	25.0	250	56.5	123	56-156			
Surrogate: n-Nonane	54.1		50.0		108	61-141			

Matrix Spike Dup (2509077-MSD1)					Source: E502247-01		Prepared: 02/26/25 Analyzed: 02/26/25		
Diesel Range Organics (C10-C28)	397	25.0	250	56.5	136	56-156	8.99	20	
Surrogate: n-Nonane	51.6		50.0		103	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/4/2025 7:49:53AM
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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 (2509069-BLK1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Chloride	ND	20.0							
LCS (2509069-BS1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2509069-MS1)					Source: E502242-03		Prepared: 02/26/25 Analyzed: 02/26/25		
Chloride	387	20.0	250	135	101	80-120			
Matrix Spike Dup (2509069-MSD1)					Source: E502242-03		Prepared: 02/26/25 Analyzed: 02/26/25		
Chloride	386	20.0	250	135	100	80-120	0.205	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/04/25 07:49

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

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

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



Page 1 of 1

Envirotech Analytical Laboratory

Printed: 2/26/2025 9:58:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	02/26/25 04:30	Work Order ID:	E502247
Phone:	(972) 371-5200	Date Logged In:	02/25/25 15:02	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	03/04/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

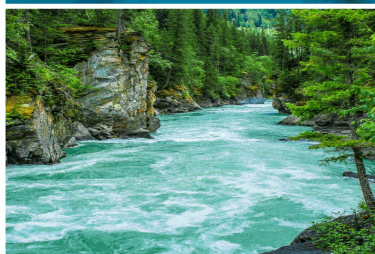
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



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: Wool Head CTB

Work Order: E502248

Job Number: 23003-0002

Received: 2/26/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/25

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: 3/4/25

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



Project Name: Wool Head CTB
Workorder: E502248
Date Received: 2/26/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2025 4:30:00AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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
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Cell: 775-287-1762
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Raina Schwanz
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/04/25 07:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-20'	E502248-01A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/4/2025 7:51:46AM
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BH01-20'

E502248-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2509065	
Benzene	ND	0.0250	1	02/26/25	02/27/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/27/25	
Toluene	ND	0.0250	1	02/26/25	02/27/25	
o-Xylene	ND	0.0250	1	02/26/25	02/27/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/27/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/27/25	
Surrogate: 4-Bromochlorobenzene-PID	82.2 %	70-130		02/26/25	02/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2509065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		02/26/25	02/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2509077	
Diesel Range Organics (C10-C28)	59.1	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	105 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2509069	
Chloride	2610	40.0	2	02/26/25	02/26/25	

QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:51:46AM

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 (2509065-BLK1) Prepared: 02/26/25 Analyzed: 02/27/25

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	6.81		8.00		85.1	70-130			

LCS (2509065-BS1) Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.07	0.0250	5.00		101	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.69		8.00		83.6	70-130			

Matrix Spike (2509065-MS1) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.26	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.21	0.0250	5.00	ND	104	61-130			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.92		8.00		86.5	70-130			

Matrix Spike Dup (2509065-MSD1) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.68	0.0250	5.00	ND	114	54-133	7.60	20	
Ethylbenzene	5.48	0.0250	5.00	ND	110	61-133	7.54	20	
Toluene	5.61	0.0250	5.00	ND	112	61-130	7.40	20	
o-Xylene	5.44	0.0250	5.00	ND	109	63-131	7.54	20	
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131	7.50	20	
Total Xylenes	16.6	0.0250	15.0	ND	110	63-131	7.51	20	
Surrogate: 4-Bromochlorobenzene-PID	6.73		8.00		84.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:51:46AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2509065-BLK1) Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

LCS (2509065-BS2) Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			

Matrix Spike (2509065-MS2) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2509065-MSD2) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.9	70-130	6.40	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:51:46AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2509077-BLK1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	61-141			

LCS (2509077-BS1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	52.1		50.0		104	61-141			

Matrix Spike (2509077-MS1)					Source: E502247-01		Prepared: 02/26/25 Analyzed: 02/26/25		
Diesel Range Organics (C10-C28)	363	25.0	250	56.5	123	56-156			
Surrogate: n-Nonane	54.1		50.0		108	61-141			

Matrix Spike Dup (2509077-MSD1)					Source: E502247-01		Prepared: 02/26/25 Analyzed: 02/26/25		
Diesel Range Organics (C10-C28)	397	25.0	250	56.5	136	56-156	8.99	20	
Surrogate: n-Nonane	51.6		50.0		103	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/4/2025 7:51:46AM
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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 (2509069-BLK1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Chloride	ND	20.0							
LCS (2509069-BS1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2509069-MS1)					Source: E502242-03		Prepared: 02/26/25 Analyzed: 02/26/25		
Chloride	387	20.0	250	135	101	80-120			
Matrix Spike Dup (2509069-MSD1)					Source: E502242-03		Prepared: 02/26/25 Analyzed: 02/26/25		
Chloride	386	20.0	250	135	100	80-120	0.205	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/04/25 07:51

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

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

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



Page 1 of 1



Envirotech Analytical Laboratory

Printed: 2/26/2025 9:59:17AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	02/26/25 04:30	Work Order ID:	E502248
Phone:	(972) 371-5200	Date Logged In:	02/25/25 15:04	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	03/04/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



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: Wool Head CTB

Work Order: E502249

Job Number: 23003-0002

Received: 2/26/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/4/25

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: 3/4/25

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



Project Name: Wool Head CTB
Workorder: E502249
Date Received: 2/26/2025 4:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/26/2025 4:30:00AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/04/25 07:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-22'	E502249-01A	Soil	02/24/25	02/26/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/4/2025 7:56:34AM
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BH01-22'

E502249-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2509065	
Benzene	ND	0.0250	1	02/26/25	02/27/25	
Ethylbenzene	ND	0.0250	1	02/26/25	02/27/25	
Toluene	ND	0.0250	1	02/26/25	02/27/25	
o-Xylene	ND	0.0250	1	02/26/25	02/27/25	
p,m-Xylene	ND	0.0500	1	02/26/25	02/27/25	
Total Xylenes	ND	0.0250	1	02/26/25	02/27/25	
Surrogate: 4-Bromochlorobenzene-PID	82.2 %	70-130		02/26/25	02/27/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2509065	
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/26/25	02/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.4 %	70-130		02/26/25	02/27/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: HM		Batch: 2509077	
Diesel Range Organics (C10-C28)	42.6	25.0	1	02/26/25	02/26/25	
Oil Range Organics (C28-C36)	ND	50.0	1	02/26/25	02/26/25	
Surrogate: n-Nonane	103 %	61-141		02/26/25	02/26/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2509069	
Chloride	3020	40.0	2	02/26/25	02/26/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:56:34AM

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 (2509065-BLK1) Prepared: 02/26/25 Analyzed: 02/27/25

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	6.81		8.00		85.1	70-130			

LCS (2509065-BS1) Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.13	0.0250	5.00		103	70-130			
Ethylbenzene	4.95	0.0250	5.00		99.1	70-130			
Toluene	5.07	0.0250	5.00		101	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.69		8.00		83.6	70-130			

Matrix Spike (2509065-MS1) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.26	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.21	0.0250	5.00	ND	104	61-130			
o-Xylene	5.04	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	102	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.92		8.00		86.5	70-130			

Matrix Spike Dup (2509065-MSD1) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Benzene	5.68	0.0250	5.00	ND	114	54-133	7.60	20	
Ethylbenzene	5.48	0.0250	5.00	ND	110	61-133	7.54	20	
Toluene	5.61	0.0250	5.00	ND	112	61-130	7.40	20	
o-Xylene	5.44	0.0250	5.00	ND	109	63-131	7.54	20	
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131	7.50	20	
Total Xylenes	16.6	0.0250	15.0	ND	110	63-131	7.51	20	
Surrogate: 4-Bromochlorobenzene-PID	6.73		8.00		84.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:56:34AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2509065-BLK1) Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

LCS (2509065-BS2) Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			

Matrix Spike (2509065-MS2) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	47.4	20.0	50.0	ND	94.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			

Matrix Spike Dup (2509065-MSD2) Source: E502243-01 Prepared: 02/26/25 Analyzed: 02/27/25

Gasoline Range Organics (C6-C10)	44.4	20.0	50.0	ND	88.9	70-130	6.40	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/4/2025 7:56:34AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2509077-BLK1) Prepared: 02/26/25 Analyzed: 02/26/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	61-141			

LCS (2509077-BS1) Prepared: 02/26/25 Analyzed: 02/26/25

Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	52.1		50.0		104	61-141			

Matrix Spike (2509077-MS1) Source: E502247-01 Prepared: 02/26/25 Analyzed: 02/26/25

Diesel Range Organics (C10-C28)	363	25.0	250	56.5	123	56-156			
Surrogate: n-Nonane	54.1		50.0		108	61-141			

Matrix Spike Dup (2509077-MSD1) Source: E502247-01 Prepared: 02/26/25 Analyzed: 02/26/25

Diesel Range Organics (C10-C28)	397	25.0	250	56.5	136	56-156	8.99	20	
Surrogate: n-Nonane	51.6		50.0		103	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/4/2025 7:56:34AM
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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 (2509069-BLK1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Chloride	ND	20.0							
LCS (2509069-BS1)					Prepared: 02/26/25 Analyzed: 02/26/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2509069-MS1)					Source: E502242-03		Prepared: 02/26/25 Analyzed: 02/26/25		
Chloride	387	20.0	250	135	101	80-120			
Matrix Spike Dup (2509069-MSD1)					Source: E502242-03		Prepared: 02/26/25 Analyzed: 02/26/25		
Chloride	386	20.0	250	135	100	80-120	0.205	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/04/25 07:56

- 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

[illegible]

envirotech | 30 of 26

Envirotech Analytical Laboratory

Printed: 2/26/2025 10:00:30AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	02/26/25 04:30	Work Order ID:	E502249
Phone:	(972) 371-5200	Date Logged In:	02/25/25 15:07	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	03/04/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

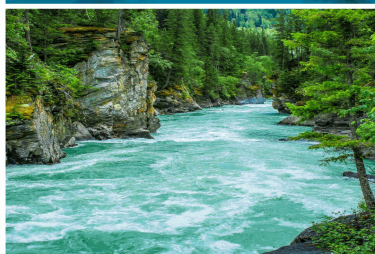
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



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: Wool Head CTB

Work Order: E503135

Job Number: 23003-0002

Received: 3/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/25

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: 3/20/25

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



Project Name: Wool Head CTB
Workorder: E503135
Date Received: 3/15/2025 4:00:46AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2025 4:00:46AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-25'	E503135-01A	Soil	03/14/25	03/15/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:18:25PM
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BH01-25'

E503135-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Benzene	ND	0.0250	1	03/17/25	03/17/25	
Ethylbenzene	ND	0.0250	1	03/17/25	03/17/25	
Toluene	ND	0.0250	1	03/17/25	03/17/25	
o-Xylene	ND	0.0250	1	03/17/25	03/17/25	
p,m-Xylene	ND	0.0500	1	03/17/25	03/17/25	
Total Xylenes	ND	0.0250	1	03/17/25	03/17/25	
Surrogate: 4-Bromochlorobenzene-PID	79.7 %	70-130		03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/25	03/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.6 %	70-130		03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2512026	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/25	03/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/25	03/18/25	
Surrogate: n-Nonane	109 %	61-141		03/17/25	03/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2512052	
Chloride	3470	40.0	2	03/18/25	03/19/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:18:25PM

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 (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

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	5.96		8.00		74.5	70-130			

LCS (2512006-BS1) Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130			
Toluene	4.44	0.0250	5.00		88.8	70-130			
o-Xylene	4.35	0.0250	5.00		87.0	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.2	0.0250	15.0		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.33		8.00		79.1	70-130			

Matrix Spike (2512006-MS1) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.84	0.0250	5.00	ND	96.9	70-130			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130			
Toluene	4.85	0.0250	5.00	ND	97.0	70-130			
o-Xylene	4.73	0.0250	5.00	ND	94.6	70-130			
p,m-Xylene	9.67	0.0500	10.0	ND	96.7	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.41		8.00		80.1	70-130			

Matrix Spike Dup (2512006-MSD1) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.56	0.0250	5.00	ND	91.2	70-130	5.99	27	
Ethylbenzene	4.48	0.0250	5.00	ND	89.6	70-130	6.28	26	
Toluene	4.56	0.0250	5.00	ND	91.2	70-130	6.10	20	
o-Xylene	4.44	0.0250	5.00	ND	88.8	70-130	6.28	25	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130	5.94	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.4	70-130	6.05	26	
Surrogate: 4-Bromochlorobenzene-PID	6.24		8.00		78.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:18:25PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			

LCS (2512006-BS2) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2512006-MS2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2512006-MSD2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	0.997	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:18:25PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2512026-BLK1) Prepared: 03/17/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	61-141			

LCS (2512026-BS1) Prepared: 03/17/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	55.6		50.0		111	61-141			

Matrix Spike (2512026-MS1) Source: E503135-01 Prepared: 03/17/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	56.3		50.0		113	61-141			

Matrix Spike Dup (2512026-MSD1) Source: E503135-01 Prepared: 03/17/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	269	25.0	250	ND	107	56-156	0.123	20	
Surrogate: n-Nonane	56.5		50.0		113	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:18:25PM
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Anions by EPA 300.0/9056A

Analyst: JM

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 (2512052-BLK1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	ND	20.0							
LCS (2512052-BS1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2512052-MS1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	3360	40.0	250	3230	54.4	80-120			M4
Matrix Spike Dup (2512052-MSD1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	4990	40.0	250	3230	706	80-120	39.0	20	M4, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:18

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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

Page 1 of 1

Client Information				Invoice Information				Lab Use Only				TAT				State																							
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D		2D		3D		Std		NM		CO		UT		TX													
Project: Woolhead CTB				Address: 3122 National Parks Hwy				E503135		23003-0002								X		X																			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220																																			
Address: 3122 National Parks Hwy				Phone: 575-988-0055																																			
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com																																			
Phone: 575-988-0055				Miscellaneous:																																			
Email: agiovengo@ensolum.com																																							
Sample Information																																							
Time Sampled		Date Sampled		Matrix		No. of Containers		Sample ID				Field Filter		Lab Number		DRO/ORO by 8015		GRO/DRO by 8015		BTEX by 8021		VOC by 8260		Chloride 300.0		BGDOC - NM		TCEQ 1005 - TX		RCRA 8 Metals		EPA Program							
																																SDWA		CWA		RCRA			
																																Compliance		Y		or		N	
																																PWSID #							
																																Remarks							
9:08		3/14/25		S		1jar		6H01-25'						1												X													
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com, bmoir@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: Ashley Giovengo																																							
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.																							
Marissa Gonzales				3/14/25				Marissa Gonzales				3.14.25		1300		Lab Use Only																							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Received on ice: <input checked="" type="checkbox"/> N																							
Marissa Gonzales				3.14.25		1650		L.H.				3.14.25		1700		T1 _____ T2 _____ T3 _____																							
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		AVG Temp °C 4																							
L.H.				3.14.25		2130		Noe Soto				3.15.25		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

Printed: 3/17/2025 9:39:03AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/15/25 04:00	Work Order ID:	E503135
Phone:	(972) 371-5200	Date Logged In:	03/14/25 16:34	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	03/21/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E503134

Job Number: 23003-0002

Received: 3/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/20/25

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



Project Name: Wool Head CTB
Workorder: E503134
Date Received: 3/15/2025 4:00:46AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2025 4:00:46AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-30'	E503134-01A	Soil	03/14/25	03/15/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/20/2025 12:17:22PM

BH01-30'

E503134-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Benzene	ND	0.0250	1	03/17/25	03/17/25	
Ethylbenzene	ND	0.0250	1	03/17/25	03/17/25	
Toluene	ND	0.0250	1	03/17/25	03/17/25	
o-Xylene	ND	0.0250	1	03/17/25	03/17/25	
p,m-Xylene	ND	0.0500	1	03/17/25	03/17/25	
Total Xylenes	ND	0.0250	1	03/17/25	03/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		80.9 %	70-130	03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/25	03/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.7 %	70-130	03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2512026	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/25	03/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/25	03/18/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	03/17/25	03/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2512052	
Chloride	3200	40.0	2	03/18/25	03/19/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:17:22PM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

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	5.96		8.00		74.5	70-130			

LCS (2512006-BS1) Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130			
Toluene	4.44	0.0250	5.00		88.8	70-130			
o-Xylene	4.35	0.0250	5.00		87.0	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.2	0.0250	15.0		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.33		8.00		79.1	70-130			

Matrix Spike (2512006-MS1) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.84	0.0250	5.00	ND	96.9	70-130			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130			
Toluene	4.85	0.0250	5.00	ND	97.0	70-130			
o-Xylene	4.73	0.0250	5.00	ND	94.6	70-130			
p,m-Xylene	9.67	0.0500	10.0	ND	96.7	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.41		8.00		80.1	70-130			

Matrix Spike Dup (2512006-MSD1) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.56	0.0250	5.00	ND	91.2	70-130	5.99	27	
Ethylbenzene	4.48	0.0250	5.00	ND	89.6	70-130	6.28	26	
Toluene	4.56	0.0250	5.00	ND	91.2	70-130	6.10	20	
o-Xylene	4.44	0.0250	5.00	ND	88.8	70-130	6.28	25	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130	5.94	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.4	70-130	6.05	26	
Surrogate: 4-Bromochlorobenzene-PID	6.24		8.00		78.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:17:22PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			

LCS (2512006-BS2) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2512006-MS2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2512006-MSD2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	0.997	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:17:22PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2512026-BLK1)					Prepared: 03/17/25 Analyzed: 03/18/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	61-141			

LCS (2512026-BS1)					Prepared: 03/17/25 Analyzed: 03/18/25				
Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	55.6		50.0		111	61-141			

Matrix Spike (2512026-MS1)					Source: E503135-01		Prepared: 03/17/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	56.3		50.0		113	61-141			

Matrix Spike Dup (2512026-MSD1)					Source: E503135-01		Prepared: 03/17/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	107	56-156	0.123	20	
Surrogate: n-Nonane	56.5		50.0		113	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:17:22PM
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Anions by EPA 300.0/9056A

Analyst: JM

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 (2512052-BLK1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	ND	20.0							
LCS (2512052-BS1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2512052-MS1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	3360	40.0	250	3230	54.4	80-120			M4
Matrix Spike Dup (2512052-MSD1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	4990	40.0	250	3230	706	80-120	39.0	20	M4, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:17

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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

[illegible]

envirotech

Envirotech Analytical Laboratory

Printed: 3/17/2025 9:37:38AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/15/25 04:00	Work Order ID:	E503134
Phone:	(972) 371-5200	Date Logged In:	03/14/25 16:31	Logged In By:	Noe Soto
Email:	agiovento@ensolum.com	Due Date:	03/21/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

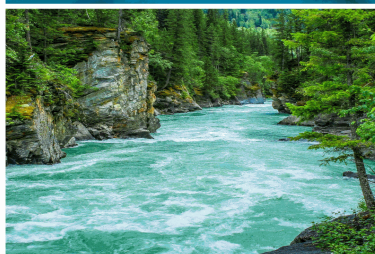
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E503133

Job Number: 23003-0002

Received: 3/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/20/25

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



Project Name: Wool Head CTB
Workorder: E503133
Date Received: 3/15/2025 4:00:46AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2025 4:00:46AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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
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Raina Schwanz
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QC - Anions by EPA 300.0/9056A	9
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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-35'	E503133-01A	Soil	03/14/25	03/15/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:15:53PM
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BH01-35'

E503133-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Benzene	ND	0.0250	1	03/17/25	03/17/25	
Ethylbenzene	ND	0.0250	1	03/17/25	03/17/25	
Toluene	ND	0.0250	1	03/17/25	03/17/25	
o-Xylene	ND	0.0250	1	03/17/25	03/17/25	
p,m-Xylene	ND	0.0500	1	03/17/25	03/17/25	
Total Xylenes	ND	0.0250	1	03/17/25	03/17/25	
Surrogate: 4-Bromochlorobenzene-PID	82.6 %	70-130		03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/25	03/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.6 %	70-130		03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2512026	
Diesel Range Organics (C10-C28)	55.0	25.0	1	03/17/25	03/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/25	03/18/25	
Surrogate: n-Nonane	107 %	61-141		03/17/25	03/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2512052	
Chloride	3580	40.0	2	03/18/25	03/19/25	



Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:15:53PM

Volatile Organics by EPA 8021B

Analyst: SL

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

Blank (2512006-BLK1)Prepared: 03/17/25 Analyzed: 03/17/25

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	5.96		8.00		74.5	70-130			

LCS (2512006-BS1)Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130			
Toluene	4.44	0.0250	5.00		88.8	70-130			
o-Xylene	4.35	0.0250	5.00		87.0	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.2	0.0250	15.0		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.33		8.00		79.1	70-130			

Matrix Spike (2512006-MS1)Source: E503129-01Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.84	0.0250	5.00	ND	96.9	70-130			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130			
Toluene	4.85	0.0250	5.00	ND	97.0	70-130			
o-Xylene	4.73	0.0250	5.00	ND	94.6	70-130			
p,m-Xylene	9.67	0.0500	10.0	ND	96.7	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.41		8.00		80.1	70-130			

Matrix Spike Dup (2512006-MSD1)Source: E503129-01Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.56	0.0250	5.00	ND	91.2	70-130	5.99	27	
Ethylbenzene	4.48	0.0250	5.00	ND	89.6	70-130	6.28	26	
Toluene	4.56	0.0250	5.00	ND	91.2	70-130	6.10	20	
o-Xylene	4.44	0.0250	5.00	ND	88.8	70-130	6.28	25	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130	5.94	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.4	70-130	6.05	26	
Surrogate: 4-Bromochlorobenzene-PID	6.24		8.00		78.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:15:53PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			

LCS (2512006-BS2) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2512006-MS2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2512006-MSD2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	0.997	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:15:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2512026-BLK1)					Prepared: 03/17/25 Analyzed: 03/18/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	61-141			

LCS (2512026-BS1)					Prepared: 03/17/25 Analyzed: 03/18/25				
Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	55.6		50.0		111	61-141			

Matrix Spike (2512026-MS1)					Source: E503135-01		Prepared: 03/17/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	56.3		50.0		113	61-141			

Matrix Spike Dup (2512026-MSD1)					Source: E503135-01		Prepared: 03/17/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	107	56-156	0.123	20	
Surrogate: n-Nonane	56.5		50.0		113	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:15:53PM
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Anions by EPA 300.0/9056A

Analyst: JM

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 (2512052-BLK1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	ND	20.0							
LCS (2512052-BS1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2512052-MS1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	3360	40.0	250	3230	54.4	80-120			M4
Matrix Spike Dup (2512052-MSD1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	4990	40.0	250	3230	706	80-120	39.0	20	M4, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:15

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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.

[illegible]

envirotech

Envirotech Analytical Laboratory

Printed: 3/17/2025 9:36:48AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/15/25 04:00	Work Order ID:	E503133
Phone:	(972) 371-5200	Date Logged In:	03/14/25 16:25	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	03/21/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

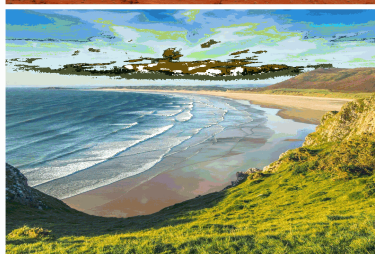
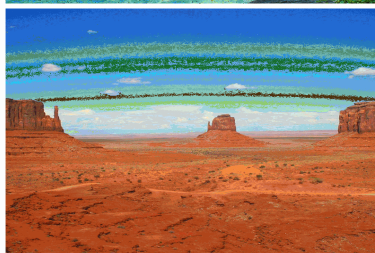
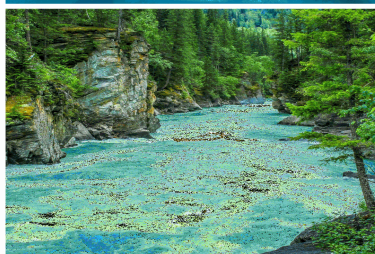
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E503132

Job Number: 23003-0002

Received: 3/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/20/25

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



Project Name: Wool Head CTB
Workorder: E503132
Date Received: 3/15/2025 4:00:46AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2025 4:00:46AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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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Field Offices:

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mgonzaless@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-40'	E503132-01A	Soil	03/14/25	03/15/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:28:54PM
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BH01-40'

E503132-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Benzene	ND	0.0250	1	03/17/25	03/17/25	
Ethylbenzene	ND	0.0250	1	03/17/25	03/17/25	
Toluene	ND	0.0250	1	03/17/25	03/17/25	
o-Xylene	ND	0.0250	1	03/17/25	03/17/25	
p,m-Xylene	ND	0.0500	1	03/17/25	03/17/25	
Total Xylenes	ND	0.0250	1	03/17/25	03/17/25	
Surrogate: 4-Bromochlorobenzene-PID	82.6 %	70-130		03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/25	03/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.5 %	70-130		03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2512026	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/17/25	03/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/25	03/18/25	
Surrogate: n-Nonane	108 %	61-141		03/17/25	03/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2512052	
Chloride	3610	40.0	2	03/18/25	03/19/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:28:54PM

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 (2512006-BLK1)

Prepared: 03/17/25 Analyzed: 03/17/25

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	5.96		8.00		74.5	70-130			

LCS (2512006-BS1)

Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130			
Toluene	4.44	0.0250	5.00		88.8	70-130			
o-Xylene	4.35	0.0250	5.00		87.0	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.2	0.0250	15.0		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.33		8.00		79.1	70-130			

Matrix Spike (2512006-MS1)

Source: E503129-01

Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.84	0.0250	5.00	ND	96.9	70-130			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130			
Toluene	4.85	0.0250	5.00	ND	97.0	70-130			
o-Xylene	4.73	0.0250	5.00	ND	94.6	70-130			
p,m-Xylene	9.67	0.0500	10.0	ND	96.7	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.41		8.00		80.1	70-130			

Matrix Spike Dup (2512006-MSD1)

Source: E503129-01

Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.56	0.0250	5.00	ND	91.2	70-130	5.99	27	
Ethylbenzene	4.48	0.0250	5.00	ND	89.6	70-130	6.28	26	
Toluene	4.56	0.0250	5.00	ND	91.2	70-130	6.10	20	
o-Xylene	4.44	0.0250	5.00	ND	88.8	70-130	6.28	25	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130	5.94	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.4	70-130	6.05	26	
Surrogate: 4-Bromochlorobenzene-PID	6.24		8.00		78.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:28:54PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			

LCS (2512006-BS2) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2512006-MS2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2512006-MSD2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	0.997	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:28:54PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2512026-BLK1)					Prepared: 03/17/25 Analyzed: 03/18/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	61-141			

LCS (2512026-BS1)					Prepared: 03/17/25 Analyzed: 03/18/25				
Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	55.6		50.0		111	61-141			

Matrix Spike (2512026-MS1)					Source: E503135-01		Prepared: 03/17/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	56.3		50.0		113	61-141			

Matrix Spike Dup (2512026-MSD1)					Source: E503135-01		Prepared: 03/17/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	107	56-156	0.123	20	
Surrogate: n-Nonane	56.5		50.0		113	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:28:54PM
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Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2512052-BLK1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	ND	20.0							
LCS (2512052-BS1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2512052-MS1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	3360	40.0	250	3230	54.4	80-120			M4
Matrix Spike Dup (2512052-MSD1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	4990	40.0	250	3230	706	80-120	39.0	20	M4, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:28

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Page 1 of 1



Envirotech Analytical Laboratory

Printed: 3/17/2025 9:35:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/15/25 04:00	Work Order ID:	E503132
Phone:	(972) 371-5200	Date Logged In:	03/14/25 16:25	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	03/21/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

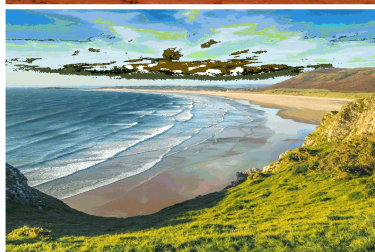
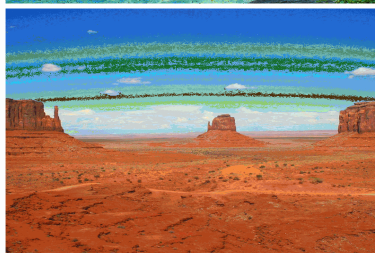
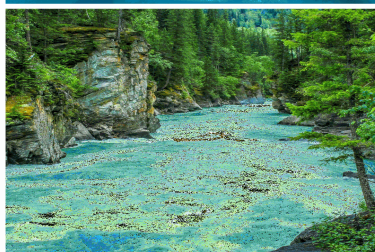
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E503131

Job Number: 23003-0002

Received: 3/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/20/25

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



Project Name: Wool Head CTB
Workorder: E503131
Date Received: 3/15/2025 4:00:46AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2025 4:00:46AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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
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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-45'	E503131-01A	Soil	03/14/25	03/15/25	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:24:07PM
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BH01-45'

E503131-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Benzene	ND	0.0250	1	03/17/25	03/17/25	
Ethylbenzene	ND	0.0250	1	03/17/25	03/17/25	
Toluene	ND	0.0250	1	03/17/25	03/17/25	
o-Xylene	ND	0.0250	1	03/17/25	03/17/25	
p,m-Xylene	ND	0.0500	1	03/17/25	03/17/25	
Total Xylenes	ND	0.0250	1	03/17/25	03/17/25	
Surrogate: 4-Bromochlorobenzene-PID	82.5 %	70-130		03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/25	03/17/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.9 %	70-130		03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2512026	
Diesel Range Organics (C10-C28)	41.6	25.0	1	03/17/25	03/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/25	03/18/25	
Surrogate: n-Nonane	108 %	61-141		03/17/25	03/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2512052	
Chloride	3130	40.0	2	03/18/25	03/19/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:24:07PM

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 (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

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	5.96		8.00		74.5	70-130			

LCS (2512006-BS1) Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130			
Toluene	4.44	0.0250	5.00		88.8	70-130			
o-Xylene	4.35	0.0250	5.00		87.0	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.2	0.0250	15.0		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.33		8.00		79.1	70-130			

Matrix Spike (2512006-MS1) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.84	0.0250	5.00	ND	96.9	70-130			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130			
Toluene	4.85	0.0250	5.00	ND	97.0	70-130			
o-Xylene	4.73	0.0250	5.00	ND	94.6	70-130			
p,m-Xylene	9.67	0.0500	10.0	ND	96.7	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.41		8.00		80.1	70-130			

Matrix Spike Dup (2512006-MSD1) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.56	0.0250	5.00	ND	91.2	70-130	5.99	27	
Ethylbenzene	4.48	0.0250	5.00	ND	89.6	70-130	6.28	26	
Toluene	4.56	0.0250	5.00	ND	91.2	70-130	6.10	20	
o-Xylene	4.44	0.0250	5.00	ND	88.8	70-130	6.28	25	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130	5.94	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.4	70-130	6.05	26	
Surrogate: 4-Bromochlorobenzene-PID	6.24		8.00		78.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:24:07PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			

LCS (2512006-BS2) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2512006-MS2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2512006-MSD2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	0.997	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:24:07PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2512026-BLK1)					Prepared: 03/17/25 Analyzed: 03/18/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	61-141			

LCS (2512026-BS1)					Prepared: 03/17/25 Analyzed: 03/18/25				
Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	55.6		50.0		111	61-141			

Matrix Spike (2512026-MS1)					Source: E503135-01		Prepared: 03/17/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	56.3		50.0		113	61-141			

Matrix Spike Dup (2512026-MSD1)					Source: E503135-01		Prepared: 03/17/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	269	25.0	250	ND	107	56-156	0.123	20	
Surrogate: n-Nonane	56.5		50.0		113	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:24:07PM
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Anions by EPA 300.0/9056A

Analyst: JM

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 (2512052-BLK1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	ND	20.0							
LCS (2512052-BS1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2512052-MS1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	3360	40.0	250	3230	54.4	80-120			M4
Matrix Spike Dup (2512052-MSD1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	4990	40.0	250	3230	706	80-120	39.0	20	M4, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:24

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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

[illegible]

Envirotech Analytical Laboratory

Printed: 3/17/2025 9:33:23AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/15/25 04:00	Work Order ID:	E503131
Phone:	(972) 371-5200	Date Logged In:	03/14/25 16:23	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	03/21/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

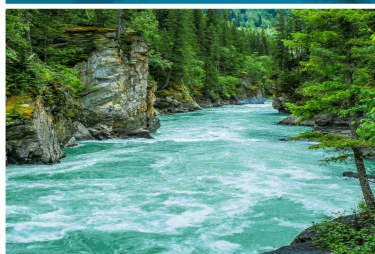
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



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: Wool Head CTB

Work Order: E503136

Job Number: 23003-0002

Received: 3/15/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/20/25

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.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/20/25

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



Project Name: Wool Head CTB
Workorder: E503136
Date Received: 3/15/2025 4:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/15/2025 4:00:00AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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
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Raina Schwanz
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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-50'	E503136-01A	Soil	03/14/25	03/15/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
3/20/2025 12:19:39PM

BH01-50'

E503136-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Benzene	ND	0.0250	1	03/17/25	03/17/25	
Ethylbenzene	ND	0.0250	1	03/17/25	03/17/25	
Toluene	ND	0.0250	1	03/17/25	03/17/25	
o-Xylene	ND	0.0250	1	03/17/25	03/17/25	
p,m-Xylene	ND	0.0500	1	03/17/25	03/17/25	
Total Xylenes	ND	0.0250	1	03/17/25	03/17/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		78.1 %	70-130	03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2512006	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/17/25	03/17/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.8 %	70-130	03/17/25	03/17/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2512026	
Diesel Range Organics (C10-C28)	46.6	25.0	1	03/17/25	03/18/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/17/25	03/18/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	03/17/25	03/18/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2512052	
Chloride	3400	40.0	2	03/18/25	03/19/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:19:39PM

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 (2512006-BLK1)

Prepared: 03/17/25 Analyzed: 03/17/25

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	5.96		8.00		74.5	70-130			

LCS (2512006-BS1)

Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.44	0.0250	5.00		88.7	70-130			
Ethylbenzene	4.37	0.0250	5.00		87.4	70-130			
Toluene	4.44	0.0250	5.00		88.8	70-130			
o-Xylene	4.35	0.0250	5.00		87.0	70-130			
p,m-Xylene	8.89	0.0500	10.0		88.9	70-130			
Total Xylenes	13.2	0.0250	15.0		88.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.33		8.00		79.1	70-130			

Matrix Spike (2512006-MS1)

Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.84	0.0250	5.00	ND	96.9	70-130			
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130			
Toluene	4.85	0.0250	5.00	ND	97.0	70-130			
o-Xylene	4.73	0.0250	5.00	ND	94.6	70-130			
p,m-Xylene	9.67	0.0500	10.0	ND	96.7	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.41		8.00		80.1	70-130			

Matrix Spike Dup (2512006-MSD1)

Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Benzene	4.56	0.0250	5.00	ND	91.2	70-130	5.99	27	
Ethylbenzene	4.48	0.0250	5.00	ND	89.6	70-130	6.28	26	
Toluene	4.56	0.0250	5.00	ND	91.2	70-130	6.10	20	
o-Xylene	4.44	0.0250	5.00	ND	88.8	70-130	6.28	25	
p,m-Xylene	9.11	0.0500	10.0	ND	91.1	70-130	5.94	23	
Total Xylenes	13.6	0.0250	15.0	ND	90.4	70-130	6.05	26	
Surrogate: 4-Bromochlorobenzene-PID	6.24		8.00		78.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:19:39PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2512006-BLK1) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.89		8.00		98.7	70-130			

LCS (2512006-BS2) Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	40.5	20.0	50.0		81.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2512006-MS2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.4	20.0	50.0	ND	84.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		8.00		99.1	70-130			

Matrix Spike Dup (2512006-MSD2) Source: E503129-01 Prepared: 03/17/25 Analyzed: 03/17/25

Gasoline Range Organics (C6-C10)	42.0	20.0	50.0	ND	84.0	70-130	0.997	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	3/20/2025 12:19:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2512026-BLK1) Prepared: 03/17/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.5		50.0		109	61-141			

LCS (2512026-BS1) Prepared: 03/17/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	55.6		50.0		111	61-141			

Matrix Spike (2512026-MS1) Source: E503135-01 Prepared: 03/17/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	56-156			
Surrogate: n-Nonane	56.3		50.0		113	61-141			

Matrix Spike Dup (2512026-MSD1) Source: E503135-01 Prepared: 03/17/25 Analyzed: 03/18/25

Diesel Range Organics (C10-C28)	269	25.0	250	ND	107	56-156	0.123	20	
Surrogate: n-Nonane	56.5		50.0		113	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 3/20/2025 12:19:39PM
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Anions by EPA 300.0/9056A

Analyst: JM

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 (2512052-BLK1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	ND	20.0							
LCS (2512052-BS1)					Prepared: 03/18/25 Analyzed: 03/18/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2512052-MS1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	3360	40.0	250	3230	54.4	80-120			M4
Matrix Spike Dup (2512052-MSD1)					Source: E503130-01		Prepared: 03/18/25 Analyzed: 03/18/25		
Chloride	4990	40.0	250	3230	706	80-120	39.0	20	M4, R3

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	03/20/25 12:19

- 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.
- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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

[illegible]

envirotech

Envirotech Analytical Laboratory

Printed: 3/17/2025 10:13:56AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	03/15/25 04:00	Work Order ID:	E503136
Phone:	(972) 371-5200	Date Logged In:	03/15/25 05:23	Logged In By:	Noe Soto
Email:	agiovengo@ensolum.com	Due Date:	03/21/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

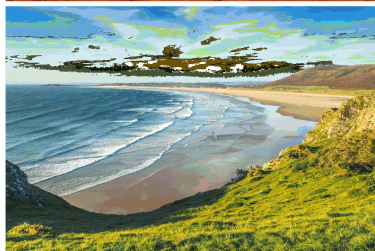
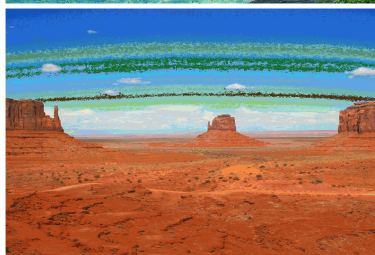
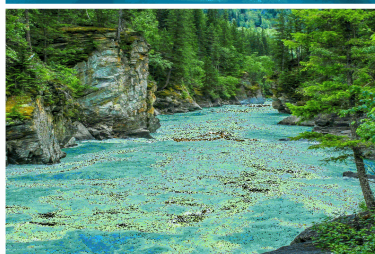
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E505149

Job Number: 23003-0002

Received: 5/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/20/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/20/25

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



Project Name: Wool Head CTB
Workorder: E505149
Date Received: 5/14/2025 7:00:00AM

Ashley Giovengo,

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

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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
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Cell: 775-287-1762
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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/20/25 08:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01-4'	E505149-01A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.
SW01-0'-4'	E505149-02A	Soil	05/12/25	05/14/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/20/2025 8:41:39AM

FS01-4'

E505149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520065
Benzene	ND	0.0250	1	05/14/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/14/25	
Toluene	ND	0.0250	1	05/14/25	05/14/25	
o-Xylene	ND	0.0250	1	05/14/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/14/25	
<i>Surrogate: Bromofluorobenzene</i>		98.4 %	70-130	05/14/25	05/14/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	05/14/25	05/14/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	05/14/25	05/14/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520065
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/14/25	
<i>Surrogate: Bromofluorobenzene</i>		98.4 %	70-130	05/14/25	05/14/25	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		100 %	70-130	05/14/25	05/14/25	
<i>Surrogate: Toluene-d8</i>		101 %	70-130	05/14/25	05/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/15/25	05/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520104
Chloride	4470	40.0	2	05/15/25	05/15/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/20/2025 8:41:39AM

SW01-0'-4'

E505149-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520065
Benzene	ND	0.0250	1	05/14/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/14/25	05/14/25	
Toluene	ND	0.0250	1	05/14/25	05/14/25	
o-Xylene	ND	0.0250	1	05/14/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/14/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/14/25	05/14/25	
Surrogate: Bromofluorobenzene		100 %	70-130	05/14/25	05/14/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/14/25	05/14/25	
Surrogate: Toluene-d8		101 %	70-130	05/14/25	05/14/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520065
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/14/25	05/14/25	
Surrogate: Bromofluorobenzene		100 %	70-130	05/14/25	05/14/25	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130	05/14/25	05/14/25	
Surrogate: Toluene-d8		101 %	70-130	05/14/25	05/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520087
Diesel Range Organics (C10-C28)	ND	25.0	1	05/15/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/15/25	05/15/25	
Surrogate: n-Nonane		105 %	61-141	05/15/25	05/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2520104
Chloride	421	20.0	1	05/15/25	05/15/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/20/2025 8:41:39AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2520065-BLK1) Prepared: 05/14/25 Analyzed: 05/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS (2520065-BS1) Prepared: 05/14/25 Analyzed: 05/14/25

Benzene	2.35	0.0250	2.50		94.0	70-130			
Ethylbenzene	2.28	0.0250	2.50		91.2	70-130			
Toluene	2.33	0.0250	2.50		93.1	70-130			
o-Xylene	2.30	0.0250	2.50		92.0	70-130			
p,m-Xylene	4.60	0.0500	5.00		92.0	70-130			
Total Xylenes	6.90	0.0250	7.50		92.0	70-130			
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			

Matrix Spike (2520065-MS1) Source: E505151-04 Prepared: 05/14/25 Analyzed: 05/14/25

Benzene	2.32	0.0250	2.50	ND	92.8	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.3	45-135			
Toluene	2.34	0.0250	2.50	ND	93.4	48-130			
o-Xylene	2.45	0.0250	2.50	ND	98.1	43-135			
p,m-Xylene	4.91	0.0500	5.00	ND	98.3	43-135			
Total Xylenes	7.37	0.0250	7.50	ND	98.2	43-135			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2520065-MSD1) Source: E505151-04 Prepared: 05/14/25 Analyzed: 05/14/25

Benzene	2.41	0.0250	2.50	ND	96.2	48-131	3.55	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.5	45-135	1.20	27	
Toluene	2.37	0.0250	2.50	ND	94.8	48-130	1.51	24	
o-Xylene	2.45	0.0250	2.50	ND	98.0	43-135	0.102	27	
p,m-Xylene	4.90	0.0500	5.00	ND	97.9	43-135	0.326	27	
Total Xylenes	7.35	0.0250	7.50	ND	98.0	43-135	0.251	27	
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/20/2025 8:41:39AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2520065-BLK1) Prepared: 05/14/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

LCS (2520065-BS2) Prepared: 05/14/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			

Matrix Spike (2520065-MS2) Source: E505151-04 Prepared: 05/14/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0	ND	99.8	70-130			
Surrogate: Bromofluorobenzene	0.486		0.500		97.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.506		0.500		101	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

Matrix Spike Dup (2520065-MSD2) Source: E505151-04 Prepared: 05/14/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130	1.96	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/20/2025 8:41:39AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

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 (2520087-BLK1)					Prepared: 05/15/25 Analyzed: 05/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

LCS (2520087-BS1)					Prepared: 05/15/25 Analyzed: 05/15/25				
Diesel Range Organics (C10-C28)	272	25.0	250		109	66-144			
Surrogate: n-Nonane	50.4		50.0		101	61-141			

Matrix Spike (2520087-MS1)					Source: E505157-03		Prepared: 05/15/25 Analyzed: 05/15/25		
Diesel Range Organics (C10-C28)	916	25.0	250	998	NR	56-156			M4
Surrogate: n-Nonane	61.5		50.0		123	61-141			

Matrix Spike Dup (2520087-MSD1)					Source: E505157-03		Prepared: 05/15/25 Analyzed: 05/15/25		
Diesel Range Organics (C10-C28)	1050	25.0	250	998	21.0	56-156	13.7	20	M4
Surrogate: n-Nonane	64.3		50.0		129	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/20/2025 8:41:39AM
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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 (2520104-BLK1)					Prepared: 05/15/25 Analyzed: 05/15/25				
Chloride	ND	20.0							
LCS (2520104-BS1)					Prepared: 05/15/25 Analyzed: 05/15/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2520104-MS1)					Source: E505142-04		Prepared: 05/15/25 Analyzed: 05/15/25		
Chloride	272	20.0	250	ND	109	80-120			
Matrix Spike Dup (2520104-MSD1)					Source: E505142-04		Prepared: 05/15/25 Analyzed: 05/15/25		
Chloride	272	20.0	250	ND	109	80-120	0.0661	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/20/25 08:41

- 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				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX				
Project Name: Woolhead CTB				Address: 3122 National Parks Hwy		E505149	2303.002				x	x							
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 3000	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
1305	05/12/25	S	1	FS01 - 4'		1													
1403	05/12/25	S	1	SW01 - 0'-4'		2													
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: <i>Jeffrey Rai</i>																			
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. Lab Use Only Received on ice: (Y/N)							
<i>Jeffrey Rai</i>		05/13/25		0711		<i>Michelle Gonzales</i>		5.13.25		0711									
<i>Michelle Gonzales</i>		5.13.25		1600		<i>Andrew M.</i>		5.13.25		1630									
<i>Andrew M.</i>		5.13.25		2215		<i>Christina</i>		5.14.25		700									
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

Printed: 5/14/2025 8:54:45AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/14/25 07:00	Work Order ID:	E505149
Phone:	(972) 371-5200	Date Logged In:	05/13/25 14:47	Logged In By:	Caitlin Mars
Email:	agiovengo@ensolum.com	Due Date:	05/20/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

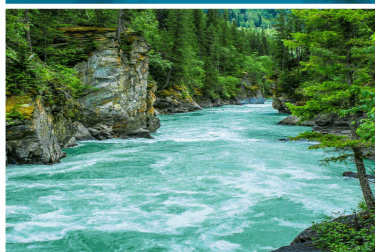
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head CTB

Work Order: E505174

Job Number: 23003-0002

Received: 5/16/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/22/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 5/22/25



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

Project Name: Wool Head CTB
Workorder: E505174
Date Received: 5/16/2025 8:30:22AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/16/2025 8:30:22AM, under the Project Name: Wool Head CTB.

The analytical test results summarized in this report with the Project Name: Wool Head CTB 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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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: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/22/25 07:25
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-0.5'	E505174-01A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS03-0.5'	E505174-02A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS04-0.5'	E505174-03A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS05-0.5'	E505174-04A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS06-0.5'	E505174-05A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.
FS07-0.5'	E505174-06A	Soil	05/14/25	05/16/25	Glass Jar, 2 oz.



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/22/2025 7:25:26AM

FS02-0.5'

E505174-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2520122	
Diesel Range Organics (C10-C28)	39.5	25.0	1	05/16/25	05/20/25	
Oil Range Organics (C28-C36)	51.4	50.0	1	05/16/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		99.1 %	61-141	05/16/25	05/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2520136	
Chloride	2280	20.0	1	05/16/25	05/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/22/2025 7:25:26AM

FS03-0.5'

E505174-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2520122	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/16/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/16/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		05/16/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2520136	
Chloride	3510	40.0	2	05/16/25	05/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/22/2025 7:25:26AM

FS04-0.5'

E505174-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2520122	
Diesel Range Organics (C10-C28)	191	25.0	1	05/16/25	05/20/25	
Oil Range Organics (C28-C36)	152	50.0	1	05/16/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		05/16/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2520136	
Chloride	2210	40.0	2	05/16/25	05/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/22/2025 7:25:26AM

FS05-0.5'

E505174-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/16/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2520122	
Diesel Range Organics (C10-C28)	287	25.0	1	05/16/25	05/20/25	
Oil Range Organics (C28-C36)	226	50.0	1	05/16/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
	103 %	61-141		05/16/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2520136	
Chloride	1060	20.0	1	05/16/25	05/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/22/2025 7:25:26AM

FS06-0.5'

E505174-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	0.0505	0.0500	1	05/16/25	05/19/25	
Total Xylenes	0.0505	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2520122	
Diesel Range Organics (C10-C28)	70.3	25.0	1	05/16/25	05/20/25	
Oil Range Organics (C28-C36)	64.3	50.0	1	05/16/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/16/25	05/20/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2520136	
Chloride	2880	40.0	2	05/16/25	05/17/25	



Sample Data

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

Project Name: Wool Head CTB
Project Number: 23003-0002
Project Manager: Ashley Giovengo

Reported:
5/22/2025 7:25:26AM

FS07-0.5'

E505174-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Benzene	ND	0.0250	1	05/16/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/16/25	05/19/25	
Toluene	ND	0.0250	1	05/16/25	05/19/25	
o-Xylene	ND	0.0250	1	05/16/25	05/19/25	
p,m-Xylene	0.0533	0.0500	1	05/16/25	05/19/25	
Total Xylenes	0.0533	0.0250	1	05/16/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2520114	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/16/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	05/16/25	05/19/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2520122	
Diesel Range Organics (C10-C28)	78.9	25.0	1	05/16/25	05/20/25	
Oil Range Organics (C28-C36)	81.2	50.0	1	05/16/25	05/20/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	05/16/25	05/20/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2520136	
Chloride	1170	20.0	1	05/16/25	05/17/25	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 7:25:26AM

Volatile Organics by EPA 8021B

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 (2520114-BLK1) Prepared: 05/16/25 Analyzed: 05/19/25

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	8.16		8.00		102	70-130			

LCS (2520114-BS1) Prepared: 05/16/25 Analyzed: 05/19/25

Benzene	5.30	0.0250	5.00		106	70-130			
Ethylbenzene	5.31	0.0250	5.00		106	70-130			
Toluene	5.31	0.0250	5.00		106	70-130			
o-Xylene	5.28	0.0250	5.00		106	70-130			
p,m-Xylene	10.8	0.0500	10.0		108	70-130			
Total Xylenes	16.1	0.0250	15.0		107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			

Matrix Spike (2520114-MS1) Source: E505174-05 Prepared: 05/16/25 Analyzed: 05/19/25

Benzene	4.92	0.0250	5.00	ND	98.3	70-130			
Ethylbenzene	4.92	0.0250	5.00	ND	98.3	70-130			
Toluene	4.91	0.0250	5.00	ND	98.2	70-130			
o-Xylene	4.94	0.0250	5.00	ND	98.9	70-130			
p,m-Xylene	9.99	0.0500	10.0	0.0505	99.4	70-130			
Total Xylenes	14.9	0.0250	15.0	0.0505	99.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.26		8.00		103	70-130			

Matrix Spike Dup (2520114-MSD1) Source: E505174-05 Prepared: 05/16/25 Analyzed: 05/19/25

Benzene	5.45	0.0250	5.00	ND	109	70-130	10.2	27	
Ethylbenzene	5.47	0.0250	5.00	ND	109	70-130	10.7	26	
Toluene	5.44	0.0250	5.00	ND	109	70-130	10.4	20	
o-Xylene	5.43	0.0250	5.00	ND	109	70-130	9.31	25	
p,m-Xylene	11.1	0.0500	10.0	0.0505	110	70-130	10.5	23	
Total Xylenes	16.5	0.0250	15.0	0.0505	110	70-130	10.1	26	
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 7:25:26AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2520114-BLK1) Prepared: 05/16/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.50		8.00		106	70-130			

LCS (2520114-BS2) Prepared: 05/16/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	50.0	20.0	50.0		99.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			

Matrix Spike (2520114-MS2) Source: E505174-05 Prepared: 05/16/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	58.2	20.0	50.0	ND	116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.85		8.00		111	70-130			

Matrix Spike Dup (2520114-MSD2) Source: E505174-05 Prepared: 05/16/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	56.0	20.0	50.0	ND	112	70-130	3.79	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.37		8.00		105	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head CTB	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/22/2025 7:25:26AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2520122-BLK1) Prepared: 05/16/25 Analyzed: 05/19/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.4		50.0		94.8	61-141			

LCS (2520122-BS1) Prepared: 05/16/25 Analyzed: 05/19/25

Diesel Range Organics (C10-C28)	273	25.0	250		109	66-144			
Surrogate: n-Nonane	47.4		50.0		94.9	61-141			

Matrix Spike (2520122-MS1) Source: E505168-24 Prepared: 05/16/25 Analyzed: 05/19/25

Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	56-156			
Surrogate: n-Nonane	47.2		50.0		94.5	61-141			

Matrix Spike Dup (2520122-MSD1) Source: E505168-24 Prepared: 05/16/25 Analyzed: 05/19/25

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	56-156	2.82	20	
Surrogate: n-Nonane	47.5		50.0		95.0	61-141			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head CTB Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/22/2025 7:25:26AM
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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 (2520136-BLK1)					Prepared: 05/16/25 Analyzed: 05/17/25				
Chloride	ND	20.0							
LCS (2520136-BS1)					Prepared: 05/16/25 Analyzed: 05/17/25				
Chloride	260	20.0	250		104	90-110			
Matrix Spike (2520136-MS1)					Source: E505168-06		Prepared: 05/16/25 Analyzed: 05/17/25		
Chloride	514	20.0	250	244	108	80-120			
Matrix Spike Dup (2520136-MSD1)					Source: E505168-06		Prepared: 05/16/25 Analyzed: 05/17/25		
Chloride	462	20.0	250	244	87.0	80-120	10.8	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head CTB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/22/25 07:25

- 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				Company: Ensolum LLC		Lab WO#		1D 2D 3D Std				NM CO UT TX							
Project Name: Woolhead CTB				Address: 3122 National Parks Hwy		E505174		2303-002				X							
Project Manager: Ashley Gioveno				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agioveno@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agioveno@ensolum.com																			
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCEQ 1005 - TX	RCRA 8 Metals	BGDOC - NM	BGDOC - TX	SDWA	CWA	RCRA	
922	5/14/2025	S	1	FS02 - 0.5'		1								X					
924	5/14/2025	S	1	FS03 - 0.5'		2								X					
926	5/14/2025	S	1	FS04 - 0.5'		3								X					
942	5/14/2025	S	1	FS05 - 0.5'		4								X					
928	5/14/2025	S	1	FS06 - 0.5'		5								X					
938	5/14/2025	S	1	FS07 - 0.5'		6								X					
Additional Instructions: Please CC: cburton@ensolum.com, agioveno@ensolum.com, iestrella@ensolum.com, chamilton@ensolum.com, bmoir@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: Rythum Rai																			
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)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 5/16/2025 1:26:12PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/16/25 08:30	Work Order ID:	E505174
Phone:	(972) 371-5200	Date Logged In:	05/15/25 14:32	Logged In By:	Caitlin Mars
Email:	agiovento@ensolum.com	Due Date:	05/22/25 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
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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



APPENDIX E

NMOCD Correspondence

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 418704

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 418704
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source <i>Please answer all the questions in this group.</i>	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

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	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 76 BBL Recovered: 60 BBL Lost: 16 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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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 418704

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 418704
	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

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

ACKNOWLEDGMENTS

Action 418704

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 418704
	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.

Sante Fe Main Office
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

CONDITIONS

Action 418704

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 418704
	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.	1/8/2025

Impacted Soil	
Saturated Soil (inches)	
	4
Area (sq. ft.)	
	1307
Standing fluids	
inches of standing fluid	
bbl estimate of standing fluids	
barrels recovered (if known)	
	60
Soil type	
pad caliche	
Spill type	
produced water	
Barrel estimate in soil	
	15.5
Barrel estimate (standing fluids/ recovered+in soil)	
	75.5

need to populate or select

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 419073

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419073
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 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	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 76 BBL Recovered: 60 BBL Lost: 16 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 419073

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419073
	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

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 01/09/2025
--	--

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QUESTIONS, Page 3

Action 419073

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419073
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
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 419073

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 419073
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	1/9/2025

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QUESTIONS

Action 458177

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458177
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,306
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/07/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.45841,-103.59156

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CONDITIONS

Action 458177

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458177
	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.	5/2/2025

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QUESTIONS

Action 458179

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458179
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,306
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.45841,-103.59156

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CONDITIONS

Action 458179

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458179
	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.	5/2/2025

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QUESTIONS

Action 458180

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458180
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,306
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.45841,-103.59156

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CONDITIONS

Action 458180

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 458180
	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.	5/2/2025

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QUESTIONS

Action 459838

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459838
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,306
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/12/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.45841,-103.59156

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CONDITIONS

Action 459838

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459838
	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.	5/7/2025

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QUESTIONS

Action 459840

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459840
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,306
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/13/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.45841,-103.59156

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CONDITIONS

Action 459840

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459840
	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.	5/7/2025

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QUESTIONS

Action 459847

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459847
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,306
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/14/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.45841,-103.59156

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CONDITIONS

Action 459847

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 459847
	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.	5/7/2025

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QUESTIONS

Action 460830

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 460830
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,306
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/15/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.45841,-103.59156

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CONDITIONS

Action 460830

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 460830
	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.	5/12/2025

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QUESTIONS

Action 460832

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 460832
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,306
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2025
Time sampling will commence	09:00 AM
Please provide any information necessary for observers to contact samplers	Israel Estrella (575) 291-9537
Please provide any information necessary for navigation to sampling site	32.45841,-103.59156

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CONDITIONS

Action 460832

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 460832
	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.	5/12/2025

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QUESTIONS

Action 482367

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 482367
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2500853952
Incident Name	NAPP2500853952 WOOLHEAD CTB @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received

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

Site Name	WOOLHEAD CTB
Date Release Discovered	01/08/2025
Surface Owner	State

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

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

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

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 76 BBL Recovered: 60 BBL Lost: 16 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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General Information
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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 482367

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 482367
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/07/2025
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QUESTIONS, Page 3

Action 482367

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 482367
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
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)	10300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	107
GRO+DRO (EPA SW-846 Method 8015M)	57
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	05/07/2025
On what date will (or did) the final sampling or liner inspection occur	05/14/2025
On what date will (or was) the remediation complete(d)	05/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	200
What is the estimated volume (in cubic yards) that will be reclaimed	30
What is the estimated surface area (in square feet) that will be remediated	1306
What is the estimated volume (in cubic yards) that will be remediated	56
<i>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.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 482367

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 482367
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	R360 Hobbs NM
(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>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/07/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 482367

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 482367
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 482367

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 482367
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	460832
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/16/2025
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	1306

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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1306
What was the total volume (cubic yards) remediated	56
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	200
What was the total volume (in cubic yards) reclaimed	30
Summarize any additional remediation activities not included by answers (above)	N/A
<p><i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i></p>	
<p>I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.</p>	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 07/07/2025

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Action 482367

QUESTIONS (continued)

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	Action Number: 482367
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 482367

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 482367
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	8/8/2025