



October 20, 2023

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
Wool Head Pad D
Incident Number nAPP2325965529
Lea County, New Mexico**

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company, Inc. (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Wool Head Pad D (Site) in Unit L, Section 20, Township 21 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the Site assessment, excavation, and soil sampling activities was to address waste-containing soil resulting from a release of produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, Matador is requesting closure for incident Number nAPP2325965529.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Lea County, New Mexico (32.45861°, -103.60081°) and is associated with oil and gas exploration and production operations on State Land Trust managed by the New Mexico State Land Office (NMSLO).

On September 16, 2023, a weld on a poly water transfer line failed, which resulted in the release of 639 barrels (bbls) of produced water into an excavated area on the north side of the caliche pad. The release occurred in an off-pad area where major pipeline construction was ongoing and where two perpendicular pipeline excavations had been previously excavated to depths of 6 feet and 9 feet below ground surface (bgs). The spill impacted an area approximately 1,963 square feet in size and 360 barrels of fluid were recovered. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on September 19, 2023, and the release was assigned Incident Number nAPP2325965529. The spill was reported to NMSLO via email on September 21, 2023.

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, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization (Appendix A). Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with available depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP 01882 POD1, located approximately 0.45 miles southwest of the Site. The groundwater well has a reported depth to groundwater greater than 106 feet bgs and a total depth of 106 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced water well records are included in Attachment B.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 5,016 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 1 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.

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On September 19, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations.

Since the release remained within an NMSLO-approved pipeline right-of-way (ROW) excavation, an assessment of cultural properties had already been completed prior to the construction of the ROW and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

Four delineation soil samples, (SS01 through SS04) were collected to assess the lateral extent of the release at ground surface. One pothole, (PH01) was advanced to a depth of 16 feet bgs with a track hoe to verify the vertical extent of the release. Three additional delineation soil samples (SS05 through SS07) were collected on October 4, 2023, to further define the lateral extent of the spill area at ground surface. All delineation soil samples were field screened for chloride using either Hach® chloride QuanTab® test strips or Mohr Method titration. The release extent and delineation 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 pothole PH01 were logged on a lithologic soil sampling log, which is included 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. The soil samples were transported

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

Laboratory analytical results for delineation soil samples (SS01 through SS07) and for pothole soil samples (PH01) indicated all COC concentrations were compliant with the strictest Closure Criteria per NMOCD Table I, and successfully defined the lateral and vertical release extent.

EXCAVATION SOIL SAMPLING ACTIVITIES

Upon completion of delineation soil sampling activities, waste-containing soil was excavated from the release area as indicated by visible staining, laboratory analytical results for delineation soil samples, and field screening results. Excavation activities were performed using a track-mounted backhoe and transport vehicles. To direct excavation activities, waste-containing soils were field screened for chloride the using MOHR Method titration. The previously existing pipeline excavations were advanced to the maximum extent practicable (MEP) and the release extent varies in depth from 7 feet bgs to 20 feet bgs. Photographic documentation of excavation activities is included in Appendix D.

Following removal of waste-containing soil, 5-point composite soil samples were collected at least every 200 square feet from the sidewalls and 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 confirmation soil samples (FS01 through FS16) were collected from the floor of the excavation at depths ranging from 7 feet to 20 feet bgs. Composite confirmation sidewall soil samples SW01 through SW20 were collected from the sidewalls of the excavation at depths ranging from ground surface to 20 feet bgs. The composite confirmation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and confirmation soil sample locations are presented on Figure 3.

The excavation area measured approximately 4,252 square feet. A total of approximately 1,820 cubic yards of waste-containing soil was removed during the excavation activities. The waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico. The release remained within the current excavation of the pipeline ROW for operations related to oil and gas production transport. As such, the release area is not expected to be reclaimed separate from the planned reclamation of the ROW following the installation and final backfill of the open ROW excavation. As such, the Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the pipeline ROW.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for confirmation floor samples FS01 through FS16 and confirmation sidewall samples SW01 through SW20 indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with the reclamation requirement. Laboratory analytical results are summarized in Tables 1 through 3 and laboratory analytical reports are included as Appendix E.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the September 16, 2023, release of produced water. Laboratory analytical results for the confirmation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and compliant with reclamation requirement. Based on the confirmation soil sample

Wool Head Pad D



analytical results, no further remediation is required. Matador will backfill the excavation with material purchased locally and backfill to match pre-existing pipeline ROW excavation depths.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 106 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2325965529.

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 "Ashley Giovengo".

Ashley Giovengo
Senior Engineer

A handwritten signature in black ink, appearing to read "Daniel R. Moir".

Daniel R. Moir, PG
Senior Managing Geologist

cc:

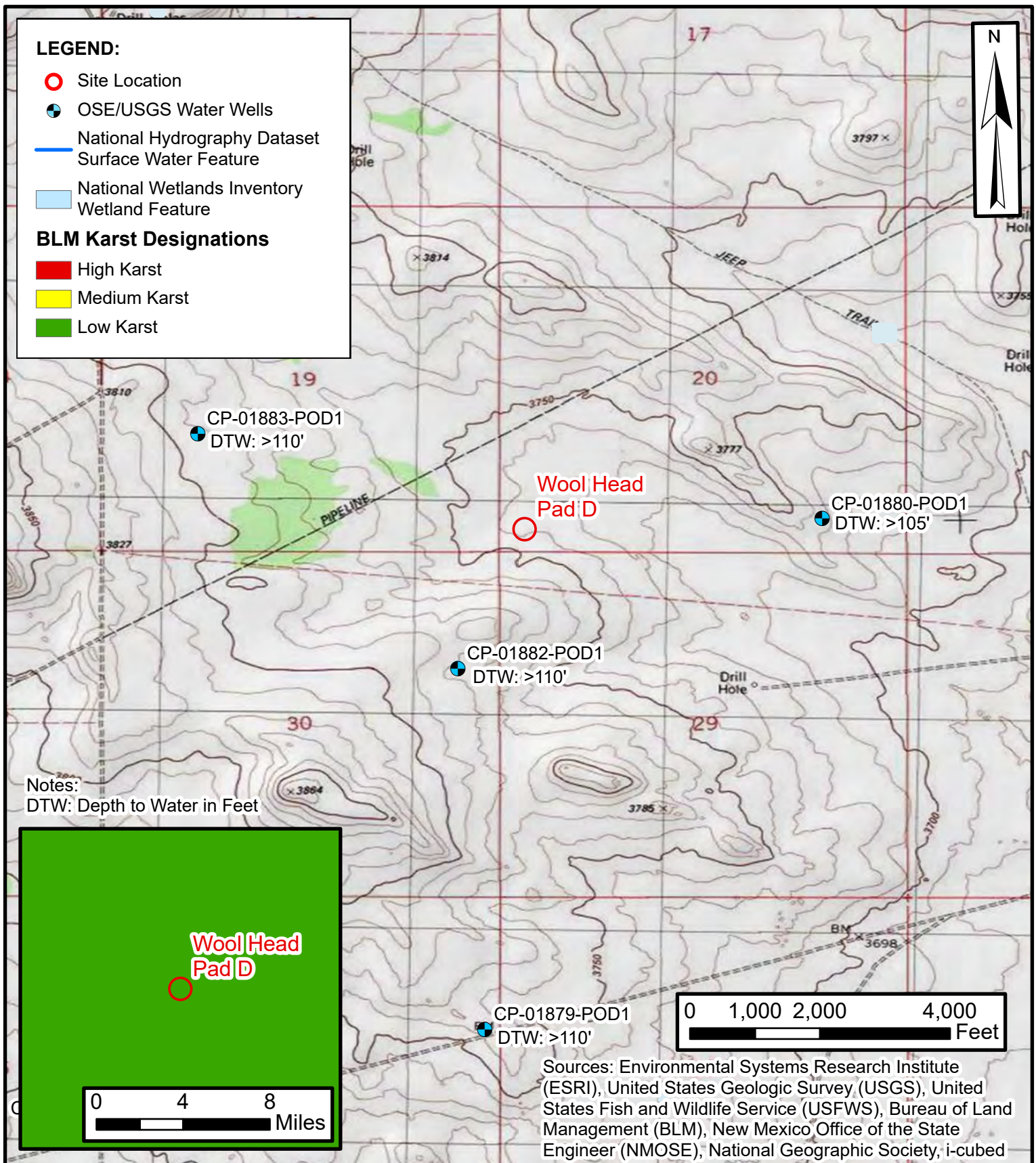
Clinton Tally, Matador Production Company
NMSLO

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Tables	Soil Sample Analytical Results
Appendix A	Form C-141
Appendix B	Referenced Well Records
Appendix C	Photographic Log
Appendix D	Lithologic Soil Sampling Logs
Appendix E	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix F	NMOCD Notifications



FIGURES



Site Receptor Map

Wool Head Pad D
Matador Production Company

Incident Number: nAPP2325965529

Unit L, Sec 20, T21S R33E

Lea County, New Mexico

FIGURE

1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Release Extent

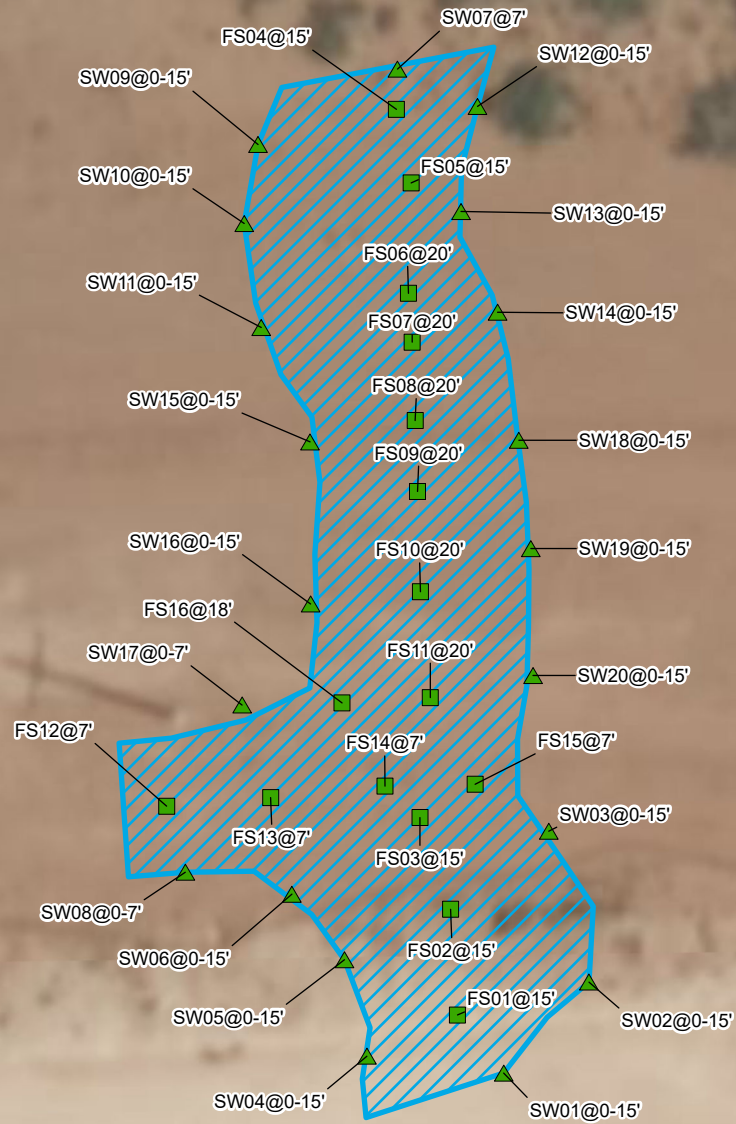
**Delineation Soil Sample Location**

Matador Production Company
Wool Head Pad D
Incident Number: nAPP2325965529
Unit L, Section 20, T 21S, R 33E
Lea County, New Mexico

FIGURE**2**

Legend

- Confirmation Floor Sample in Compliance with NMOCD Closure Criteria
- ▲ Confirmation Sidewall Sample in Compliance with NMOCD Closure Criteria
- ▨ Excavation Extent



0 12.5 25 50
Feet

Sources: Environmental Systems Research Institute (ESRI)



Confirmation Soil Sample Locations

Matador Production Company
Wool Head Pad D
Incident Number: nAPP2325965529
Unit L, Section 20, T 21S, R 33E
Lea County, New Mexico

FIGURE

3



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Wool Head Pad D
 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	9/19/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS02	9/19/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS03	9/19/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS04	9/19/2023	0.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	28.6
SS05	10/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	58.4
SS06	10/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SS07	10/4/2023	0	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	49.0
PH01	9/19/2023	4	0.385	2.541	26.7	<25.0	<50.0	26.7	26.7	13,700
PH01	9/19/2023	12	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	273
PH01	9/19/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	284
PH01	9/19/2023	16	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	290

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
 Wool Head Pad D
 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	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	416
FS02	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	477
FS03	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	319
FS04	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	442
FS05	10/4/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	394
FS06	10/6/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	416
FS07	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,700
FS08	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	265
FS09	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	846
FS10	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	277
FS11	10/5/2023	20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	216
FS12	10/6/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,540
FS13	10/6/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	1,410
FS14	10/5/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	3,530
FS15	10/6/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	2,530
FS16	10/6/2023	18	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	447

Notes:

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GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



TABLE 3
SOIL SAMPLE ANALYTICAL RESULTS
 Wool Head Pad D
 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 Sidewall Soil Samples										
SW01	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	262
SW02	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW03	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW04	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	295
SW05	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	50
SW06	10/4/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	28.5
SW07	10/4/2023	7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	20.6
SW08	10/5/2023	0-7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	253
SW09	10/5/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW10	10/5/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	58.4
SW11	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW12	10/5/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW13	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW14	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	459
SW15	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW16	10/5/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW17	10/5/2023	0-7	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW18	10/5/2023	0-15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW19	10/6/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
SW20	10/6/2023	0-20	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

Notes:

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mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

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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

Form C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # (assigned by OCD) nAPP2325965529
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.45861Longitude -103.60081
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Wool Head Pad D	Site Type Oil Well
Date Release Discovered 09/16/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
L	20	21S	33E	Lea

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 639 bbls	Volume Recovered (bbls) 360 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: Equipment failure on pipeline poly weld. The spill impacted an area approximately 1,963 square ft off-pad.

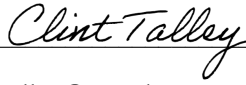
$$BBL\ Estimate = \left(\text{Saturated Soil Volume } (ft^3) / 4.21 \left(\frac{ft^3}{bbl} \text{ equivalent} \right) \right) \times \text{Estimated Soil Porosity } (\%)$$
$$+ \text{Recovered Fluids } (bbl)$$
$$((1,963 \times 1.33) / 4.21)) \times 0.45 + 360.0 = 639 \text{ bbls}$$

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 09/16/2023 via website.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Clint Talley</u> Title: <u>EHS Supervisor</u> Signature: <u></u> Date: <u>09/18/2023</u> email: <u>Clinton.talley@matadorresources.com</u> Telephone: <u>337-319-8398</u>	
<u>OCD Only</u> Received by: <u>Scott Rodgers</u> Date: <u>09/19/2023</u>	

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>106</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

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

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

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

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: 

Date: 09/18/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells

Date: 10/23/2023

Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: *Clint Talley*

Date: 10/23/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells

Date: 10/23/2023

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

Closure Approved by: *Nelson Velez* Date: 02/06/2024

Printed Name: Nelson Velez

Title: Environmental Specialist – Adv



APPENDIX B

Referenced Well Records



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-1882		
	WELL OWNER NAME(S) Advanced Energy Partners				PHONE (OPTIONAL) 832.672.4700		
	WELL OWNER MAILING ADDRESS 11490 Westheimer Rd. Suit 950				CITY Houston	STATE TX	ZIP 77077
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 27	SECONDS 7.70 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE 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 10/06/2021	DRILLING ENDED 10/07/2021	DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 106	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) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	0 106		±6.5	Boring- HSA	-	-	-
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT	

FOR OSE INTERNAL USE


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

FILE NO.	CP-1882	POD NO.	1	TRN NO.	699678
LOCATION	21S. 33E. 30.242			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	Sand, Fine-grained, poorly graded, Red	Y ✓ N	
	9	19	10	Caliche, with fine-grained sand, White/Tan	Y ✓ N	
	19	69	50	Sand, Fine-grained, poorly graded, Tan/ Brown	Y ✓ N	
	69	79	10	Sand, Fine-grained, poorly graded with clay, Reddish Brown	Y ✓ N	
	79	106	27	Clay, Stiff, consolidated, with fine-grained sand, Reddish 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	
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.	
	<p>USE DIT NOV 2 2021 AM 8:17</p> <p>PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Carmelo Trevino, Cameron Pruitt</p>	

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:	
	 Jackie D. Atkins SIGNATURE OF DRILLER / PRINT SIGNEE NAME	10/28/2021 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 C

Photographic Log



Photographic Log

Matador Production Company

Wool Head Pad D

nAPP2325965529



Photograph 1

Date: 9/16/23

Description: Spill area

View: South



Photograph 2

Date: 9/19/23

Description: Delineation sampling

View: North



Photograph 3

Date: 9/19/23

Description: Delineation sampling

View: South



Photograph 4

Date: 9/19/23

Description: Delineation sampling PH01

View: East



Photographic Log

Matador Production Company

Wool Head Pad D

nAPP2325965529



Excavation
Ensolum, LLC

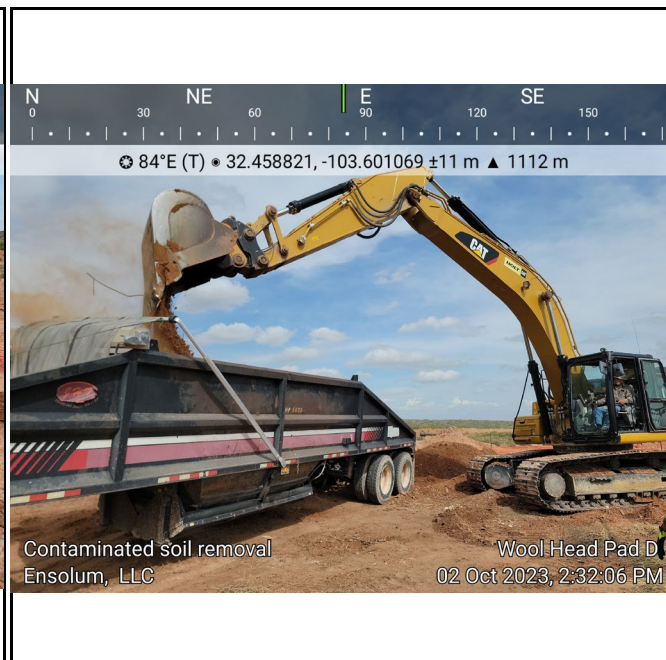
Wool Head Pad D
02 Oct 2023, 2:35:44 PM

Photograph 5

Date: 10/2/23

Description: Excavation

View: North



Contaminated soil removal
Ensolum, LLC

Wool Head Pad D
02 Oct 2023, 2:32:06 PM

Photograph 6

Date: 10/2/23

Description: Waste-containing soil removed

View: East



Hydrovac
Ensolum, LLC

Wool Head Pad D
03 Oct 2023, 10:34:32 AM

Photograph 7

Date: 10/3/23

Description: Hydrovac around pipelines

View: Southwest



North end
Ensolum, LLC

Wool Head Pad D
04 Oct 2023, 9:29:22 AM

Photograph 8

Date: 10/4/23

Description: Excavated area

View: North



Photographic Log

Matador Production Company

Wool Head Pad D

nAPP2325965529



Photograph 9

Date: 10/5/23

Description: Excavated Area

View: South



Photograph 10

Date: 10/5/23

Description: Excavation around pipelines

View: West



Photograph 11

Date: 10/6/23

Description: Excavated area

View: West



Photograph 12

Date: 10/6/23


Description: Excavated area

View: South



APPENDIX D

Lithologic Soil Sampling Logs

								Sample Name: PH01		Date: 09/19/2023	
								Site Name: Wool Head Pad D			
								Incident Number: nAPP2325965529			
								Job Number: 03A2270014			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Chad Hamilton		Method: Trackhoe	
Coordinates: 32.45861, -103.60081								Hole Diameter: 4'		Total Depth: 16'	
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	19,292	NA		PH01	4	4	SP-SC	Light to dark brow, Fine- to med-grained sand, low plasticity, dry, cohesive, massive, uniform, no staining, slight odor			
W	34,529	NA		PH01	5	5	SP-SC	Light to dark brow, Fine- to med-grained sand, low plasticity, wet, cohesive, massive, uniform, no staining, strong odor			
W	12,129	NA		PH01	6	6	SP-SC	SAA			
W	23,856	NA		PH01	7	7	SP-SC	SAA			
M	21,397	NA		PH01	8	8	SP-SC	Light to dark brow, Fine- to med-grained sand, low plasticity, moist, cohesive, massive, uniform, no staining, slight odor			
M	17,466	NA		PH01	9	9	SP-SC	SAA			
M	23,856	NA		PH01	10	10	SP-SC	SAA			
M	1,982	NA		PH01	11	11	SP-SC	SAA			
D	190	NA	N	PH01	12	12	SP-SC	Light to dark brow with some dark red, Fine- to med-grained sand with some clay content, low plasticity, dry, cohesive, massive, uniform, no staining, no odor			
M	1,725	NA	Y	PH01	13	13	SP-SC	Light to dark brow, Fine- to med-grained sand, low plasticity, moist, cohesive, massive, uniform, no staining, slight odor			
D	1,114	NA	Y	PH01	14	14	SP-SC	SAA			
D	2,122	NA	N	PH01	15	15	SP-SC	Light to dark brow with some dark red, Fine- to med-grained sand with some clay content, low plasticity, dry, cohesive, massive, uniform, no staining, no odor			
D	156	NA	N	PH01	16	16	SP-SC	SAA			

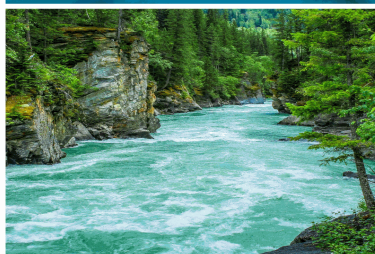


APPENDIX E

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E309145

Job Number: 23052-0001

Received: 9/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/22/23

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: 9/22/23

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



Project Name: Wool Head Pad D
Workorder: E309145
Date Received: 9/21/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2023 8:15:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

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

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

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

Field Offices:

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Lynn Jarboe
Technical Representative/Client Services
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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

West Texas Midland/Odessa Area
Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/22/23 13:28

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01 - 0.5'	E309145-01A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
SS02 - 0.5'	E309145-02A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
SS03 - 0.5'	E309145-03A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
SS04 - 0.5'	E309145-04A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
PH01 - 4'	E309145-05A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.
PH01 - 12'	E309145-06A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
---	---	---

SS01 - 0.5'

E309145-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2338067	
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2338067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.0 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2338065	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>	83.9 %	50-200		09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338071	
Chloride	ND	20.0	1	09/21/23	09/21/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/22/2023 1:28:44PM

SS02 - 0.5'

E309145-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.9 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>						
	88.2 %	50-200		09/21/23	09/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	ND	20.0	1	09/21/23	09/21/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
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SS03 - 0.5'
E309145-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2338067	
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
Surrogate: 4-Bromochlorobenzene-PID	95.6 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2338067	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.1 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2338065	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
Surrogate: n-Nonane	83.1 %	50-200		09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338071	
Chloride	ND	20.0	1	09/21/23	09/21/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/22/2023 1:28:44PM

SS04 - 0.5'

E309145-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.8 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>						
	89.3 %	50-200		09/21/23	09/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	28.6	20.0	1	09/21/23	09/21/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/22/2023 1:28:44PM

PH01 - 4'

E309145-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	0.385	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	0.287	0.0250	1	09/21/23	09/21/23	
Toluene	0.869	0.0250	1	09/21/23	09/21/23	
o-Xylene	0.224	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	0.776	0.0500	1	09/21/23	09/21/23	
Total Xylenes	1.00	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	26.7	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.8 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>						
		85.0 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	13700	400	20	09/21/23	09/21/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
9/22/2023 1:28:44PM

PH01 - 12'

E309145-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Benzene	ND	0.0250	1	09/21/23	09/21/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/21/23	
Toluene	ND	0.0250	1	09/21/23	09/21/23	
o-Xylene	ND	0.0250	1	09/21/23	09/21/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/21/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.7 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.1 %	70-130		09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2338065
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/21/23	
<i>Surrogate: n-Nonane</i>						
	89.4 %	50-200		09/21/23	09/21/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2338071
Chloride	273	20.0	1	09/21/23	09/21/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/22/2023 1:28:44PM

Volatile Organics by EPA 8021B

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 (2338067-BLK1) Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.9	70-130			

LCS (2338067-BS1) Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.01	0.0250	5.00		100	70-130			
Ethylbenzene	4.82	0.0250	5.00		96.4	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.96	0.0250	5.00		99.2	70-130			
p,m-Xylene	9.95	0.0500	10.0		99.5	70-130			
Total Xylenes	14.9	0.0250	15.0		99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.66		8.00		95.8	70-130			

Matrix Spike (2338067-MS1) Source: E309146-06 Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	10.0	0.0500	10.0	ND	100	54-133			
Ethylbenzene	9.67	0.0500	10.0	ND	96.7	61-133			
Toluene	10.0	0.0500	10.0	ND	100	61-130			
o-Xylene	9.92	0.0500	10.0	ND	99.2	63-131			
p,m-Xylene	19.9	0.100	20.0	ND	99.5	63-131			
Total Xylenes	29.8	0.0500	30.0	ND	99.4	63-131			
Surrogate: 4-Bromochlorobenzene-PID	15.3		16.0		95.7	70-130			

Matrix Spike Dup (2338067-MSD1) Source: E309146-06 Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	9.80	0.0500	10.0	ND	98.0	54-133	2.23	20	
Ethylbenzene	9.45	0.0500	10.0	ND	94.5	61-133	2.30	20	
Toluene	9.79	0.0500	10.0	ND	97.9	61-130	2.33	20	
o-Xylene	9.68	0.0500	10.0	ND	96.8	63-131	2.38	20	
p,m-Xylene	19.5	0.100	20.0	ND	97.5	63-131	2.04	20	
Total Xylenes	29.2	0.0500	30.0	ND	97.3	63-131	2.15	20	
Surrogate: 4-Bromochlorobenzene-PID	15.3		16.0		95.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/22/2023 1:28:44PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338067-BLK1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		8.00		87.9	70-130			

LCS (2338067-BS2)					Prepared: 09/21/23 Analyzed: 09/21/23				
Gasoline Range Organics (C6-C10)	48.2	20.0	50.0		96.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.06		8.00		88.3	70-130			

Matrix Spike (2338067-MS2)					Source: E309146-06	Prepared: 09/21/23 Analyzed: 09/21/23			
Gasoline Range Organics (C6-C10)	90.7	40.0	100	ND	90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	13.9		16.0		87.0	70-130			

Matrix Spike Dup (2338067-MSD2)					Source: E309146-06	Prepared: 09/21/23 Analyzed: 09/21/23			
Gasoline Range Organics (C6-C10)	92.6	40.0	100	ND	92.6	70-130	2.05	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	14.1		16.0		88.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/22/2023 1:28:44PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2338065-BLK1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			

LCS (2338065-BS1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
Surrogate: n-Nonane	41.6		50.0		83.2	50-200			

Matrix Spike (2338065-MS1)					Source: E309145-06		Prepared: 09/21/23 Analyzed: 09/21/23		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	38-132			
Surrogate: n-Nonane	38.1		50.0		76.1	50-200			

Matrix Spike Dup (2338065-MSD1)					Source: E309145-06		Prepared: 09/21/23 Analyzed: 09/21/23		
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	2.99	20	
Surrogate: n-Nonane	40.1		50.0		80.3	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/22/2023 1:28:44PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338071-BLK1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Chloride	ND	20.0							
LCS (2338071-BS1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2338071-MS1)					Source: E309145-01		Prepared: 09/21/23 Analyzed: 09/21/23		
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2338071-MSD1)					Source: E309145-01		Prepared: 09/21/23 Analyzed: 09/21/23		
Chloride	267	20.0	250	ND	107	80-120	0.947	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 Pad D	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/22/23 13:28

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 9/21/2023 8:43:33AM

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:	09/21/23 08:15	Work Order ID:	E309145
Phone:	(972) 371-5200	Date Logged In:	09/20/23 14:30	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/21/23 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/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.

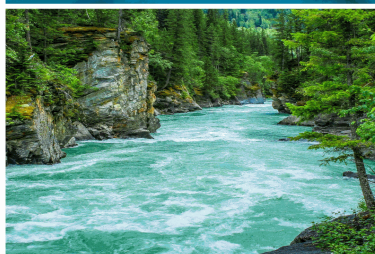
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E309148

Job Number: 23052-0001

Received: 9/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/23

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: 9/25/23



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

Project Name: Wool Head Pad D
Workorder: E309148
Date Received: 9/21/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2023 8:15:00AM, under the Project Name: Wool Head Pad D.

The analytical test results summarized in this report with the Project Name: Wool Head Pad D 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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ljjarboe@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/25/23 12:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 15'	E309148-01A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:05:39PM
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PH01 - 15'

E309148-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2338070	
Benzene	ND	0.0250	1	09/21/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/22/23	
Toluene	ND	0.0250	1	09/21/23	09/22/23	
o-Xylene	ND	0.0250	1	09/21/23	09/22/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/22/23	
Surrogate: 4-Bromochlorobenzene-PID	95.0 %	70-130		09/21/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2338070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.9 %	70-130		09/21/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2338077	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane	98.7 %	50-200		09/21/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338078	
Chloride	284	20.0	1	09/21/23	09/22/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2023 12:05:39PM

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 (2338070-BLK1)

Prepared: 09/21/23 Analyzed: 09/22/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.2	70-130			

LCS (2338070-BS1)

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2338070-MS1)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.16	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2338070-MSD1)

Source: E309147-02

Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.11	0.0250	5.00	ND	102	54-133	1.13	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	1.16	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	1.05	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	1.24	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	1.31	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	1.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2023 12:05:39PM

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 (2338070-BLK1) Prepared: 09/21/23 Analyzed: 09/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	70-130			

LCS (2338070-BS2) Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

Matrix Spike (2338070-MS2) Source: E309147-02 Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			

Matrix Spike Dup (2338070-MSD2) Source: E309147-02 Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0	ND	112	70-130	0.904	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2023 12:05:39PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2338077-BLK1)					Prepared: 09/21/23 Analyzed: 09/22/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			

LCS (2338077-BS1)					Prepared: 09/21/23 Analyzed: 09/23/23				
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	59.2		50.0		118	50-200			

Matrix Spike (2338077-MS1)					Source: E309141-26		Prepared: 09/21/23 Analyzed: 09/22/23		
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	46.5		50.0		92.9	50-200			

Matrix Spike Dup (2338077-MSD1)					Source: E309141-26		Prepared: 09/21/23 Analyzed: 09/22/23		
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	1.93	20	
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:05:39PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338078-BLK1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Chloride	ND	20.0							
LCS (2338078-BS1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2338078-MS1)					Source: E309144-01		Prepared: 09/21/23 Analyzed: 09/21/23		
Chloride	329	200	250	ND	131	80-120			M5
Matrix Spike Dup (2338078-MSD1)					Source: E309144-01		Prepared: 09/21/23 Analyzed: 09/22/23		
Chloride	334	200	250	ND	134	80-120	1.64	20	M5

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 Pad D	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/25/23 12:05

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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

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

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



Client: Matador Production Company.				Bill To				Lab Use Only				TAT				EPA Program						
Project: Wool Head Pad D				Attention: Matador Production Company				Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Ashley Giovengo				Address: on file				E 309148		23052-0001		X										
Address: 3122 National Parks Hwy				City, State, Zip:				Analysis and Method											RCRA			
City, State, Zip: Carlsbad NM, 88220				Phone: (337)319-8398				TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX					
Phone: 575-988-0055				Email: clinton.talley@matadorresources.com																		
Email: agiovengo@ensolum.com																		State				
Report due by:																		NM	CO	UT	AZ	TX
																		X				
																		Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																	
13:00	9/19/2023	Soil	1	PH01 - 15'	1										X							
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chadhmilton@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Sampled by: Chad Hamilton																						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only														
		09/20/23	13:07			9-20-23	1307	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1														
		9-20-23	1700			9-20-23	1730	T2														
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T3														
		9-20-23	2400			9-21-23	8:15	AVG Temp °C 4														
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						

Envirotech Analytical Laboratory

Printed: 9/21/2023 8:54:23AM

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:	09/21/23 08:15	Work Order ID:	E309148
Phone:	(972) 371-5200	Date Logged In:	09/20/23 14:40	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/27/23 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.

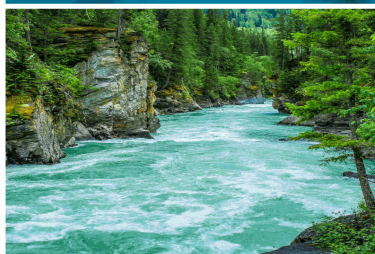
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E309149

Job Number: 23052-0001

Received: 9/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/25/23

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: 9/25/23

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



Project Name: Wool Head Pad D
Workorder: E309149
Date Received: 9/21/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/21/2023 8:15:00AM, under the Project Name: Wool Head Pad D.

The analytical test results summarized in this report with the Project Name: Wool Head Pad D 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.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/25/23 12:07

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
PH01 - 16'	E309149-01A	Soil	09/19/23	09/21/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:07:16PM
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PH01 - 16'

E309149-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2338070	
Benzene	ND	0.0250	1	09/21/23	09/22/23	
Ethylbenzene	ND	0.0250	1	09/21/23	09/22/23	
Toluene	ND	0.0250	1	09/21/23	09/22/23	
o-Xylene	ND	0.0250	1	09/21/23	09/22/23	
p,m-Xylene	ND	0.0500	1	09/21/23	09/22/23	
Total Xylenes	ND	0.0250	1	09/21/23	09/22/23	
Surrogate: 4-Bromochlorobenzene-PID	97.3 %	70-130		09/21/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2338070	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/22/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.3 %	70-130		09/21/23	09/22/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2338077	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/21/23	09/22/23	
Oil Range Organics (C28-C36)	ND	50.0	1	09/21/23	09/22/23	
Surrogate: n-Nonane	97.9 %	50-200		09/21/23	09/22/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2338078	
Chloride	290	20.0	1	09/21/23	09/22/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2023 12:07:16PM

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 (2338070-BLK1) Prepared: 09/21/23 Analyzed: 09/22/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.2	70-130			

LCS (2338070-BS1) Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.05	0.0250	5.00		101	70-130			
Ethylbenzene	4.97	0.0250	5.00		99.4	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.98	0.0250	5.00		99.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.1	0.0250	15.0		101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.55		8.00		94.4	70-130			

Matrix Spike (2338070-MS1) Source: E309147-02 Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.16	0.0250	5.00	ND	103	54-133			
Ethylbenzene	5.08	0.0250	5.00	ND	102	61-133			
Toluene	5.14	0.0250	5.00	ND	103	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131			
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.5	70-130			

Matrix Spike Dup (2338070-MSD1) Source: E309147-02 Prepared: 09/21/23 Analyzed: 09/21/23

Benzene	5.11	0.0250	5.00	ND	102	54-133	1.13	20	
Ethylbenzene	5.02	0.0250	5.00	ND	100	61-133	1.16	20	
Toluene	5.08	0.0250	5.00	ND	102	61-130	1.05	20	
o-Xylene	5.04	0.0250	5.00	ND	101	63-131	1.24	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	1.31	20	
Total Xylenes	15.2	0.0250	15.0	ND	102	63-131	1.29	20	
Surrogate: 4-Bromochlorobenzene-PID	7.54		8.00		94.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2023 12:07:16PM

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 (2338070-BLK1) Prepared: 09/21/23 Analyzed: 09/22/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		91.9	70-130			

LCS (2338070-BS2) Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.53		8.00		94.1	70-130			

Matrix Spike (2338070-MS2) Source: E309147-02 Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.65		8.00		95.7	70-130			

Matrix Spike Dup (2338070-MSD2) Source: E309147-02 Prepared: 09/21/23 Analyzed: 09/21/23

Gasoline Range Organics (C6-C10)	55.9	20.0	50.0	ND	112	70-130	0.904	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	9/25/2023 12:07:16PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2338077-BLK1)					Prepared: 09/21/23 Analyzed: 09/22/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			

LCS (2338077-BS1)					Prepared: 09/21/23 Analyzed: 09/23/23				
Diesel Range Organics (C10-C28)	283	25.0	250		113	38-132			
Surrogate: n-Nonane	59.2		50.0		118	50-200			

Matrix Spike (2338077-MS1)					Source: E309141-26		Prepared: 09/21/23 Analyzed: 09/22/23		
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132			
Surrogate: n-Nonane	46.5		50.0		92.9	50-200			

Matrix Spike Dup (2338077-MSD1)					Source: E309141-26		Prepared: 09/21/23 Analyzed: 09/22/23		
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132	1.93	20	
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 9/25/2023 12:07:16PM
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Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2338078-BLK1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Chloride	ND	20.0							
LCS (2338078-BS1)					Prepared: 09/21/23 Analyzed: 09/21/23				
Chloride	267	20.0	250		107	90-110			
Matrix Spike (2338078-MS1)					Source: E309144-01		Prepared: 09/21/23 Analyzed: 09/21/23		
Chloride	329	200	250	ND	131	80-120			M5
Matrix Spike Dup (2338078-MSD1)					Source: E309144-01		Prepared: 09/21/23 Analyzed: 09/22/23		
Chloride	334	200	250	ND	134	80-120	1.64	20	M5

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 Pad D	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	09/25/23 12:07

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 9/21/2023 8:55:52AM

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:	09/21/23 08:15	Work Order ID:	E309149
Phone:	(972) 371-5200	Date Logged In:	09/20/23 14:41	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	09/27/23 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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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

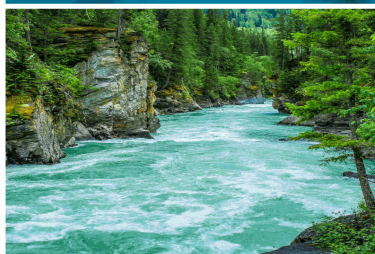
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E310035

Job Number: 23052-0001

Received: 10/6/2023

Revision: 0

Report Reviewed By:

Draft

Walter Hinchman
Laboratory Director
10/6/23

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: 10/6/23

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



Project Name: Wool Head Pad D
Workorder: E310035
Date Received: 10/6/2023 6:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/6/2023 6:15:00AM, under the Project Name: Wool Head Pad D.

The analytical test results summarized in this report with the Project Name: Wool Head Pad D 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

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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 Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/06/23 15:10
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 15'	E310035-01A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
FS02 - 15'	E310035-02A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
FS03 - 15'	E310035-03A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
FS04 - 15'	E310035-04A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
FS05 - 15'	E310035-05A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW01 - 0-15'	E310035-06A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW02 - 0-15'	E310035-07A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW03 - 0-15'	E310035-08A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW04 - 0-15'	E310035-09A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW05 - 0-15'	E310035-10A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW06 - 0-15'	E310035-11A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SW07 - 7'	E310035-12A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

FS01 - 15'

E310035-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene	109 %	70-130		10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/06/23	10/06/23	
Surrogate: Toluene-d8	83.4 %	70-130		10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene	109 %	70-130		10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4	96.0 %	70-130		10/06/23	10/06/23	
Surrogate: Toluene-d8	83.4 %	70-130		10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane	94.1 %	50-200		10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	416	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

FS02 - 15'

E310035-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		108 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		101 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		108 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		101 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		95.7 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	477	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

FS03 - 15'

E310035-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		109 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		100 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		109 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		100 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		100 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	319	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

FS04 - 15'

E310035-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		110 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		104 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		110 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		104 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		97.1 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	442	20.0	1	10/06/23	10/06/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/6/2023 3:10:51PM
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FS05 - 15'

E310035-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2340093	
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		103 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2340093	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		103 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2340094	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		98.4 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340099	
Chloride	394	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

SW01 - 0-15'

E310035-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		99.1 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	262	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

SW02 - 0-15'

E310035-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		106 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		119 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		106 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		119 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		92.0 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	ND	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

SW03 - 0-15'

E310035-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene	87.5 %	70-130		10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/06/23	10/06/23	
Surrogate: Toluene-d8	102 %	70-130		10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene	87.5 %	70-130		10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4	97.9 %	70-130		10/06/23	10/06/23	
Surrogate: Toluene-d8	102 %	70-130		10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane	95.1 %	50-200		10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	ND	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

SW04 - 0-15'

E310035-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		97.1 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	295	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

SW05 - 0-15'

E310035-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		101 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		101 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		94.2 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	50.2	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

SW06 - 0-15'

E310035-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		111 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		111 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		102 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		97.4 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	28.5	20.0	1	10/06/23	10/06/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/6/2023 3:10:51PM

SW07 - 7'

E310035-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		108 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		83.7 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/06/23	
Surrogate: Bromofluorobenzene		108 %	70-130	10/06/23	10/06/23	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	10/06/23	10/06/23	
Surrogate: Toluene-d8		83.7 %	70-130	10/06/23	10/06/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	10/06/23	
Surrogate: n-Nonane		95.9 %	50-200	10/06/23	10/06/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340099
Chloride	20.6	20.0	1	10/06/23	10/06/23	



Definitions and Notes

Matador Resources, LLC.	Project Name:	Wool Head Pad D	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/06/23 15:10

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Client: Matador Production Company.					Bill To		Lab Use Only				TAT				EPA Program			
Project: Wool Head Pad D					Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo					Address: on file		E310035		23052-0001		X							
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method										RCRA	
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com					Report due by:									X				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks												
9:40	10/4/2023	Soil	1 Jar	FS01 - 15'	1													
10:05	10/4/2023	Soil	1 Jar	FS02 - 15'	2													
10:52	10/4/2023	Soil	1 Jar	FS03 - 15'	3													
14:10	10/4/2023	Soil	1 Jar	FS04 - 15'	4													
15:03	10/4/2023	Soil	1 Jar	FS05 - 15'	5													
10:12	10/4/2023	Soil	1 Jar	SW01 - 0-15'	6													
11:27	10/4/2023	Soil	1 Jar	SW02 - 0-15'	7													
11:56	10/4/2023	Soil	1 Jar	SW03 - 0-15'	8													
10:41	10/4/2023	Soil	1 Jar	SW04 - 0-15'	9													
10:36	10/4/2023	Soil	1 Jar	SW05 - 0-15'	10													
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaff@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
ZL Burt		10-5-23	6:35	Michelle Gungor		10-5-23	1045	Received on ice: Y / N										
Michelle Gungor		10-5-23	1630	Andrew mcsso		10-5-23	1930	T1 T2 T3										
Andrew mcsso		10-6-23	0130	Kyrill R Hael		10/6/23	615	AVG Temp °C 4										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



Client: Matador Production Company.					Bill To		Lab Use Only						TAT				EPA Program		
Project: Wool Head Pad D					Attention: Matador Production Company		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo					Address: on file		E310035		23052-0001				X						
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method											RCRA	
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX	
Email: agiovengo@ensolum.com																			
Report due by:																			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												Remarks		
12:59	10/4/2023	Soil	1 Jar	SW06 - 0-15'	11									X					
12:30	10/4/2023	Soil	1 Jar	SW07 - 7'	12									X					

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafat@ensolum.com

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.					
Sampled by:						Lab Use Only					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: Y/ N					
<i>Michelle Gayle</i>	10-5-23	6:35	<i>Michelle Gayle</i>	10-5-23	1045						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3					
<i>Michelle Gayle</i>	10-5-23	1630	<i>Michelle Gayle</i>	10-5-23	1930						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C					
<i>Andrew Miller</i>	10-6-23	0130	<i>Andrew Miller</i>	10/6/23	615	4					
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											



Envirotech Analytical Laboratory

Printed: 10/6/2023 1:30:55PM

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:	10/06/23 06:15	Work Order ID:	E310035
Phone:	(972) 371-5200	Date Logged In:	10/05/23 16:06	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/06/23 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/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.

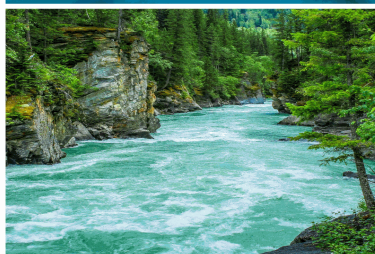
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E310043

Job Number: 23052-0001

Received: 10/6/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/11/23

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: 10/11/23

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



Project Name: Wool Head Pad D
Workorder: E310043
Date Received: 10/6/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/6/2023 8:15:00AM, under the Project Name: Wool Head Pad D.

The analytical test results summarized in this report with the Project Name: Wool Head Pad D 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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Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/11/23 11:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS05-0'	E310043-01A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SS06-0'	E310043-02A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.
SS07-0'	E310043-03A	Soil	10/04/23	10/06/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
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SS05-0'

E310043-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS		Batch: 2340110	
Benzene	ND	0.0250	1	10/06/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/09/23	
Toluene	ND	0.0250	1	10/06/23	10/09/23	
o-Xylene	ND	0.0250	1	10/06/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.6 %	70-130		10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS		Batch: 2340110	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	92.4 %	70-130		10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL		Batch: 2341007	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/10/23	
<i>Surrogate: n-Nonane</i>	95.3 %	50-200		10/09/23	10/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2340101	
Chloride	58.4	20.0	1	10/06/23	10/08/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
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SS06-0'

E310043-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Benzene	ND	0.0250	1	10/06/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/09/23	
Toluene	ND	0.0250	1	10/06/23	10/09/23	
o-Xylene	ND	0.0250	1	10/06/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2341007
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/10/23	
<i>Surrogate: n-Nonane</i>						
	95.8 %	50-200		10/09/23	10/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340101
Chloride	ND	20.0	1	10/06/23	10/10/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/11/2023 11:31:15AM

SS07-0'

E310043-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Benzene	ND	0.0250	1	10/06/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/06/23	10/09/23	
Toluene	ND	0.0250	1	10/06/23	10/09/23	
o-Xylene	ND	0.0250	1	10/06/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/06/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/06/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2340110
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.6 %	70-130		10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2341007
Diesel Range Organics (C10-C28)	49.0	25.0	1	10/09/23	10/10/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/10/23	
<i>Surrogate: n-Nonane</i>						
	86.4 %	50-200		10/09/23	10/10/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2340101
Chloride	ND	20.0	1	10/06/23	10/10/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/11/2023 11:31:15AM

Volatile Organics by EPA 8021B

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 (2340110-BLK1)

Prepared: 10/06/23 Analyzed: 10/09/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.8	70-130			

LCS (2340110-BS1)

Prepared: 10/06/23 Analyzed: 10/09/23

Benzene	4.67	0.0250	5.00		93.4	70-130			
Ethylbenzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.72	0.0250	5.00		94.3	70-130			
o-Xylene	4.70	0.0250	5.00		94.1	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
Total Xylenes	14.3	0.0250	15.0		95.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			

Matrix Spike (2340110-MS1)

Source: E310046-03

Prepared: 10/06/23 Analyzed: 10/09/23

Benzene	4.85	0.0250	5.00	ND	97.0	54-133			
Ethylbenzene	4.89	0.0250	5.00	ND	97.8	61-133			
Toluene	4.89	0.0250	5.00	ND	97.9	61-130			
o-Xylene	4.90	0.0250	5.00	ND	98.0	63-131			
p,m-Xylene	9.97	0.0500	10.0	ND	99.7	63-131			
Total Xylenes	14.9	0.0250	15.0	ND	99.1	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

Matrix Spike Dup (2340110-MSD1)

Source: E310046-03

Prepared: 10/06/23 Analyzed: 10/09/23

Benzene	4.80	0.0250	5.00	ND	96.0	54-133	1.01	20	
Ethylbenzene	4.87	0.0250	5.00	ND	97.4	61-133	0.345	20	
Toluene	4.87	0.0250	5.00	ND	97.5	61-130	0.448	20	
o-Xylene	4.88	0.0250	5.00	ND	97.7	63-131	0.336	20	
p,m-Xylene	9.94	0.0500	10.0	ND	99.4	63-131	0.281	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.8	63-131	0.299	20	
Surrogate: 4-Bromochlorobenzene-PID	7.63		8.00		95.4	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/11/2023 11:31:15AM

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 (2340110-BLK1) Prepared: 10/06/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.8	70-130			

LCS (2340110-BS2) Prepared: 10/06/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	57.4	20.0	50.0		115	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

Matrix Spike (2340110-MS2) Source: E310046-03 Prepared: 10/06/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	55.6	20.0	50.0	ND	111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2340110-MSD2) Source: E310046-03 Prepared: 10/06/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0	ND	105	70-130	5.45	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.1	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/11/2023 11:31:15AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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 (2341007-BLK1)					Prepared: 10/09/23 Analyzed: 10/09/23				
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	50-200			

LCS (2341007-BS1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Diesel Range Organics (C10-C28)	243	25.0	250		97.2	38-132			
Surrogate: n-Nonane	48.4		50.0		96.9	50-200			

Matrix Spike (2341007-MS1)					Source: E310040-07		Prepared: 10/09/23 Analyzed: 10/09/23		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132			
Surrogate: n-Nonane	44.2		50.0		88.3	50-200			

Matrix Spike Dup (2341007-MSD1)					Source: E310040-07		Prepared: 10/09/23 Analyzed: 10/09/23		
Diesel Range Organics (C10-C28)	250	25.0	250	ND	100	38-132	3.40	20	
Surrogate: n-Nonane	46.7		50.0		93.5	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/11/2023 11:31:15AM
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Anions by EPA 300.0/9056A

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 (2340101-BLK1)					Prepared: 10/06/23 Analyzed: 10/08/23				
Chloride	ND	20.0							
LCS (2340101-BS1)					Prepared: 10/06/23 Analyzed: 10/08/23				
Chloride	244	20.0	250		97.7	90-110			
Matrix Spike (2340101-MS1)					Source: E310036-01		Prepared: 10/06/23 Analyzed: 10/08/23		
Chloride	379	20.0	250	129	99.9	80-120			
Matrix Spike Dup (2340101-MSD1)					Source: E310036-01		Prepared: 10/06/23 Analyzed: 10/08/23		
Chloride	383	20.0	250	129	102	80-120	1.06	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 Pad D	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/11/23 11:31

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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 13 of 14

Envirotech Analytical Laboratory

Printed: 10/6/2023 3:16:12PM

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:	10/06/23 08:15	Work Order ID:	E310043
Phone:	(972) 371-5200	Date Logged In:	10/05/23 17:30	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/12/23 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.

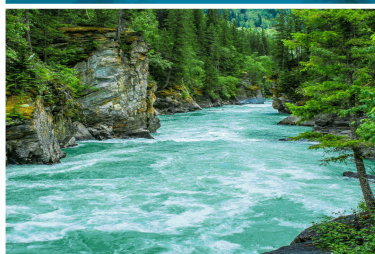
Date



envirotech Inc.

Report to:

Ashley Giovengo



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E310047

Job Number: 23052-0001

Received: 10/8/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/17/23

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: 10/17/23

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



Project Name: Wool Head Pad D
Workorder: E310047
Date Received: 10/8/2023 10:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/8/2023 10:45:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/23 15:26
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS07 - 20'	E310047-01A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS08 - 20'	E310047-02A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS09 - 20'	E310047-03A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS10 - 20'	E310047-04A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS11 - 20'	E310047-05A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
FS14 - 7'	E310047-06A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW08 - 0-7'	E310047-07A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW09 - 0-15'	E310047-08A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW10 - 0-15'	E310047-09A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW11 - 0-20'	E310047-10A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW12 - 0-15'	E310047-11A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW13 - 0-20'	E310047-12A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW14 - 0-20'	E310047-13A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW15 - 0-20'	E310047-14A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW16 - 0-20'	E310047-15A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW17 - 0-7'	E310047-16A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.
SW18 - 0-15'	E310047-17A	Soil	10/05/23	10/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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FS07 - 20'

E310047-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	94.0 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.8 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>	74.8 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	3700	40.0	2	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

FS08 - 20'

E310047-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.7 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	70.4 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	265	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

FS09 - 20'

E310047-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	74.3 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	846	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

FS10 - 20'

E310047-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.3 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.4 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	75.4 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	277	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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FS11 - 20'

E310047-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.9 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane	77.8 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	216	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

FS14 - 7'

E310047-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.9 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	74.4 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	3530	40.0	2	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

SW08 - 0-7'

E310047-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.2 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	77.5 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	253	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

SW09 - 0-15'

E310047-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	66.6 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

SW10 - 0-15'

E310047-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.8 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.1 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	81.2 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	58.4	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW11 - 0-20'
E310047-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.2 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane	80.5 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW12 - 0-15'
E310047-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: 4-Bromochlorobenzene-PID	97.2 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	95.0 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane	79.1 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

SW13 - 0-20'

E310047-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	85.0 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

SW14 - 0-20'

E310047-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.7 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	82.8 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	459	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW15 - 0-20'
E310047-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: 4-Bromochlorobenzene-PID	94.2 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.0 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane	79.5 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW16 - 0-20'
E310047-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: 4-Bromochlorobenzene-PID	94.3 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.1 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane	78.6 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:26:31PM

SW17 - 0-7'

E310047-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.5 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.8 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341001
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
<i>Surrogate: n-Nonane</i>						
	86.6 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:26:31PM
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SW18 - 0-15'
E310047-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2341003	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.2 %	70-130		10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2341001	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane	87.1 %	50-200		10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2341009	
Chloride	ND	20.0	1	10/09/23	10/09/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported: 10/17/2023 3:26:31PM
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	

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 (2341003-BLK1) Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

LCS (2341003-BS1) Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	4.64	0.0250	5.00		92.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.68	0.0250	5.00		93.6	70-130			
o-Xylene	4.67	0.0250	5.00		93.5	70-130			
p,m-Xylene	9.48	0.0500	10.0		94.8	70-130			
Total Xylenes	14.2	0.0250	15.0		94.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.56		8.00		94.6	70-130			

Matrix Spike (2341003-MS1) Source: E310047-07 Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	4.57	0.0250	5.00	ND	91.4	54-133			
Ethylbenzene	4.57	0.0250	5.00	ND	91.3	61-133			
Toluene	4.60	0.0250	5.00	ND	92.0	61-130			
o-Xylene	4.61	0.0250	5.00	ND	92.1	63-131			
p,m-Xylene	9.32	0.0500	10.0	ND	93.2	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

Matrix Spike Dup (2341003-MSD1) Source: E310047-07 Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	4.84	0.0250	5.00	ND	96.8	54-133	5.77	20	
Ethylbenzene	4.85	0.0250	5.00	ND	97.0	61-133	6.00	20	
Toluene	4.86	0.0250	5.00	ND	97.2	61-130	5.56	20	
o-Xylene	4.87	0.0250	5.00	ND	97.4	63-131	5.54	20	
p,m-Xylene	9.89	0.0500	10.0	ND	98.9	63-131	5.86	20	
Total Xylenes	14.8	0.0250	15.0	ND	98.4	63-131	5.76	20	
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

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 (2341003-BLK1) Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.7	70-130			

LCS (2341003-BS2) Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			

Matrix Spike (2341003-MS2) Source: E310047-07 Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.6	70-130			

Matrix Spike Dup (2341003-MSD2) Source: E310047-07 Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	1.12	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.61		8.00		95.2	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2341001-BLK1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.5	50-200			

LCS (2341001-BS1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Diesel Range Organics (C10-C28)	214	25.0	250		85.5	38-132			
Surrogate: n-Nonane	42.9		50.0		85.9	50-200			

Matrix Spike (2341001-MS1)					Source: E310047-08		Prepared: 10/09/23 Analyzed: 10/09/23		
Diesel Range Organics (C10-C28)	221	25.0	250	ND	88.6	38-132			
Surrogate: n-Nonane	38.7		50.0		77.4	50-200			

Matrix Spike Dup (2341001-MSD1)					Source: E310047-08		Prepared: 10/09/23 Analyzed: 10/09/23		
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132	1.76	20	
Surrogate: n-Nonane	38.9		50.0		77.8	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

Anions by EPA 300.0/9056A

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 (2341009-BLK1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Chloride	ND	20.0							
LCS (2341009-BS1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2341009-MS1)					Source: E310047-01		Prepared: 10/09/23 Analyzed: 10/09/23		
Chloride	3970	40.0	250	3700	111	80-120			
Matrix Spike Dup (2341009-MSD1)					Source: E310047-01		Prepared: 10/09/23 Analyzed: 10/09/23		
Chloride	4130	40.0	250	3700	174	80-120	3.94	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 Pad D	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/23 15:26

- 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.



Project Information

Chain of Custody

Page 1 of 2

Client: Matador Production Company.					Bill To Attention: Matador Production Company Address: on file City, State, Zip: Phone: (337)319-8398 Email: clinton.talley@matadorresources.com		Lab Use Only				TAT				EPA Program	
Project: Wool Head Pad D							Lab WO#	Job Number			1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Giovengo							E 310047			23052-0001			X			
Address: 3122 National Parks Hwy							Analysis and Method									
City, State, Zip: Carlsbad NM, 88220							TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					
Phone: 575-988-0055																
Email: agiovengo@ensolum.com																
Report due by:																
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											
9:52	10/5/2023	Soil	1 Jar	FS07 - 20'	1											
13:35	10/5/2023	Soil	1 Jar	FS08 - 20'	2											
13:38	10/5/2023	Soil	1 Jar	FS09 - 20'	3											
13:40	10/5/2023	Soil	1 Jar	FS10 - 20'	4											
13:42	10/5/2023	Soil	1 Jar	FS11 - 20'	5											
14:20	10/5/2023	Soil	1 Jar	FS14 - 7'	6											
9:09	10/5/2023	Soil	1 Jar	SW08 - 0-7'	7											
10:10	10/5/2023	Soil	1 Jar	SW09 - 0-15'	8											
9:56	10/5/2023	Soil	1 Jar	SW10 - 0-15'	9											
9:34	10/5/2023	Soil	1 Jar	SW11 - 0-15'	10											
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaf@ensolum.com																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
[Signature]		10-6-23	6:50	[Signature]		10-6-23	1015	Received on ice: Y/ N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3								
[Signature]		10-6-23	1730	[Signature]		10/6/23	1730									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C								
[Signature]		10/6/23	11:11pm	[Signature]		10/6/23	10:45	4.0								
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																



Client: Matador Production Company.					Bill To		Lab Use Only				TAT				EPA Program			
Project: Wool Head Pad D					Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo					Address: on file		E 310047		23052-0001		X							
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method											RCRA
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com					Report due by:									X				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks		
10:23	10/5/2023	Soil	1 Jar	SW12 - 0-15'	11							X						
10:25	10/5/2023	Soil	1 Jar	SW13 - 0-15'	12							X						
11:00	10/5/2023	Soil	1 Jar	SW14 - 0-15'	13							X						
12:55	10/5/2023	Soil	1 Jar	SW15 - 0-15'	14							X						
12:58	10/5/2023	Soil	1 Jar	SW16 - 0-15'	15							X						
13:55	10/5/2023	Soil	1 Jar	SW17 - 0-7'	16							X						
15:15	10/5/2023	Soil	1 Jar	SW18 - 0-15'	17							X						
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaff@ensolum.com																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.							
Sampled by:											Lab Use Only							
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received on ice: <u>Y</u> / N										
26 [Signature]		10-6-23	6:56	[Signature]		10/6/23	1015											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
[Signature]		10/6/23	1730	[Signature]		10/6/23	1730											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4.0</u>										
[Signature]		10/6/23	11:11pm	[Signature]		10/8/23	10:45											
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		



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Envirotech Analytical Laboratory

Printed: 10/9/2023 9:20:23AM

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:	10/08/23 10:45	Work Order ID:	E310047
Phone:	(972) 371-5200	Date Logged In:	10/06/23 16:13	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/09/23 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/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



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Project Information

Chain of Custody

Page 1 of 2

Client: Matador Production Company.					Bill To		Lab Use Only		TAT			EPA Program						
Project: Wool Head Pad D					Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Ashley Giovengo					Address: on file		E 310047		23052-0001		X							
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method									RCRA		
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com									NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com					Report due by:													
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks												
9:52	10/5/2023	Soil	1 Jar	FS07 - 20'	1	X												
13:35	10/5/2023	Soil	1 Jar	FS08 - 20'	2	X												
13:38	10/5/2023	Soil	1 Jar	FS09 - 20'	3	X												
13:40	10/5/2023	Soil	1 Jar	FS10 - 20'	4	X												
13:42	10/5/2023	Soil	1 Jar	FS11 - 20'	5	X												
14:20	10/5/2023	Soil	1 Jar	FS14 - 7'	6	X												
9:09	10/5/2023	Soil	1 Jar	SW08 - 0-7'	7	X												
10:10	10/5/2023	Soil	1 Jar	SW09 - 0-15'	8	X												
9:56	10/5/2023	Soil	1 Jar	SW10 - 0-15'	9	X												
9:34	10/5/2023	Soil	1 Jar	SW11 - 0-15' 20'	10	X												
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaff@ensolum.com																		
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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 5 °C on subsequent days.																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
[Signature]		10-6-23	6:50	[Signature]		10-6-23	10:15	Received on ice: (Y) / N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
[Signature]		10-6-23	1730	[Signature]		10/6/23	1730											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C										
[Signature]		10/6/23	11:11pm	[Signature]		10/6/23	10:45	40										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
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Project Information

Chain of Custody

Page 2 of 2

Client: Matador Production Company.					Bill To		Lab Use Only		TAT				EPA Program							
Project: Wool Head Pad D					Attention: Matador Production Company		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Ashley Giovengo					Address: on file		E 310047		23052-0001		X									
Address: 3122 National Parks Hwy					City, State, Zip:		Analysis and Method								RCRA					
City, State, Zip: Carlsbad NM, 88220					Phone: (337)319-8398		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC	NM	GD	TX	State				
Phone: 575-988-0055					Email: clinton.talley@matadorresources.com											NM	CO	UT	AZ	TX
Email: agiovengo@ensolum.com					Report due by:												Remarks			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
10:23	10/5/2023	Soil	1 Jar	SW12 - 0-15'	11							X								
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12:58	10/5/2023	Soil	1 Jar	SW16 - 0-15' 20'	15							X								
13:55	10/5/2023	Soil	1 Jar	SW17 - 0-7'	16							X								
15:15	10/5/2023	Soil	1 Jar	SW18 - 0-15'	17							X								
Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaff@ensolum.com																				
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Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
ZB Brown		10-6-23	6:50	Michelle Gayle		10/6/23	1015	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N												
Michelle Gayle		10/6/23	1730	Sam Lord		10/6/23	1730	T1 _____ T2 _____ T3 _____												
Sam Lord		10/6/23	11:11pm	Dana Zappa		10/8/23	10:48	AVG Temp °C 4.0												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				



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Report to:
Ashley Giovengo



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Practical Solutions for a Better Tomorrow

Analytical Report

Matador Resources, LLC.

Project Name: Wool Head Pad D

Work Order: E310049

Job Number: 23052-0001

Received: 10/8/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/17/23

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: 10/17/23

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



Project Name: Wool Head Pad D
Workorder: E310049
Date Received: 10/8/2023 10:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/8/2023 10:45:00AM, under the Project Name: Wool Head Pad D.

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

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

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

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

Respectfully,

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

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

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

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Southern New Mexico Area

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/23 15:28
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS06 -20'	E310049-01A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
FS12 -07'	E310049-02A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
FS13 - 07'	E310049-03A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
FS15 - 07'	E310049-04A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
FS16 - 18'	E310049-05A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
SW19 - 0-20'	E310049-06A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.
SW20 - 0-20'	E310049-07A	Soil	10/06/23	10/08/23	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
---	---	-----------------------------------

FS06 -20'

E310049-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		94.6 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		94.6 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane		82.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	416	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:28:52PM

FS12 -07'

E310049-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		122 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		99.3 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		122 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		99.3 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane		82.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	2540	40.0	2	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:28:52PM

FS13 - 07'

E310049-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		94.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		104 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		97.6 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		94.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane		84.4 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	1410	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:28:52PM

FS15 - 07'

E310049-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		89.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		112 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		89.9 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane		82.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	2530	40.0	2	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:28:52PM

FS16 - 18'

E310049-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		90.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		114 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		90.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane		88.3 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	447	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:28:52PM

SW19 - 0-20'

E310049-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		93.5 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		93.5 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane		92.1 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	ND	20.0	1	10/09/23	10/09/23	



Sample Data

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

Project Name: Wool Head Pad D
Project Number: 23052-0001
Project Manager: Ashley Giovengo

Reported:
10/17/2023 3:28:52PM

SW20 - 0-20'

E310049-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Benzene	ND	0.0250	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		90.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/09/23	10/09/23	
Surrogate: 1,2-Dichloroethane-d4		94.4 %	70-130	10/09/23	10/09/23	
Surrogate: Toluene-d8		90.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2341002
Diesel Range Organics (C10-C28)	ND	25.0	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/09/23	10/09/23	
Surrogate: n-Nonane		92.1 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2341010
Chloride	ND	20.0	1	10/09/23	10/09/23	



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:28:52PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2341004-BLK1) Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

LCS (2341004-BS1) Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	2.31	0.0250	2.50		92.5	70-130			
Ethylbenzene	2.21	0.0250	2.50		88.5	70-130			
Toluene	2.25	0.0250	2.50		90.0	70-130			
o-Xylene	2.25	0.0250	2.50		89.9	70-130			
p,m-Xylene	4.40	0.0500	5.00		87.9	70-130			
Total Xylenes	6.65	0.0250	7.50		88.6	70-130			
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2341004-MS1) Source: E310048-10 Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	2.27	0.0250	2.50	ND	91.0	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.3	45-135			
Toluene	2.38	0.0250	2.50	ND	95.2	48-130			
o-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.10	0.0500	5.00	ND	102	43-135			
Total Xylenes	7.77	0.0250	7.50	ND	104	43-135			
Surrogate: Bromofluorobenzene	0.601		0.500		120	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.453		0.500		90.5	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			

Matrix Spike Dup (2341004-MSD1) Source: E310048-10 Prepared: 10/09/23 Analyzed: 10/09/23

Benzene	2.62	0.0250	2.50	ND	105	48-131	13.9	23	
Ethylbenzene	2.54	0.0250	2.50	ND	102	45-135	4.44	27	
Toluene	2.45	0.0250	2.50	ND	98.1	48-130	3.00	24	
o-Xylene	2.52	0.0250	2.50	ND	101	43-135	5.66	27	
p,m-Xylene	4.97	0.0500	5.00	ND	99.4	43-135	2.45	27	
Total Xylenes	7.50	0.0250	7.50	ND	99.9	43-135	3.55	27	
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:28:52PM

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 (2341004-BLK1) Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.572		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

LCS (2341004-BS2) Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0		107	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.1	70-130			

Matrix Spike (2341004-MS2) Source: E310048-10 Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	53.7	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.546		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.531		0.500		106	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

Matrix Spike Dup (2341004-MSD2) Source: E310048-10 Prepared: 10/09/23 Analyzed: 10/09/23

Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	0.281	20	
Surrogate: Bromofluorobenzene	0.555		0.500		111	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		95.0	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:28:52PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2341002-BLK1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	44.8		50.0		89.6	50-200			

LCS (2341002-BS1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Diesel Range Organics (C10-C28)	209	25.0	250		83.7	38-132			
Surrogate: n-Nonane	44.5		50.0		88.9	50-200			

Matrix Spike (2341002-MS1)					Source: E310048-01		Prepared: 10/09/23 Analyzed: 10/09/23		
Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.9	38-132			
Surrogate: n-Nonane	43.5		50.0		87.0	50-200			

Matrix Spike Dup (2341002-MSD1)					Source: E310048-01		Prepared: 10/09/23 Analyzed: 10/09/23		
Diesel Range Organics (C10-C28)	215	25.0	250	ND	85.9	38-132	1.20	20	
Surrogate: n-Nonane	43.0		50.0		86.0	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Wool Head Pad D Project Number: 23052-0001 Project Manager: Ashley Giovengo	Reported: 10/17/2023 3:28:52PM
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Anions by EPA 300.0/9056A

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 (2341010-BLK1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Chloride	ND	20.0							
LCS (2341010-BS1)					Prepared: 10/09/23 Analyzed: 10/09/23				
Chloride	257	20.0	250		103	90-110			
Matrix Spike (2341010-MS1)					Source: E310049-01		Prepared: 10/09/23 Analyzed: 10/09/23		
Chloride	654	20.0	250	416	95.3	80-120			
Matrix Spike Dup (2341010-MSD1)					Source: E310049-01		Prepared: 10/09/23 Analyzed: 10/09/23		
Chloride	681	20.0	250	416	106	80-120	3.93	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 Pad D	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/23 15:28

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

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

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

Client: Matador Production Company.	Bill To	Lab Use Only	TAT	EPA Program
Project: Wool Head Pad D	Attention: Matador Production Company	Lab WO# E 310049	1D 2D 3D Standard	CWA SDWA
Project Manager: Ashley Giovengo	Address: on file	Job Number 23052-0001	X	
Address: 3122 National Parks Hwy	City, State, Zip:	Analysis and Method		
City, State, Zip: Carlsbad NM, 88220	Phone: (337) 319-8398	RCRA		
Phone: 575-988-0055	Email: clinton.talley@matadorresources.co	State		
Email: agiovengo@ensolum.com	m	NM CO UT AZ TX		
Report due by:		X		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
8:55	10/6/2023	S	1 Jar	FS06 - 20'	1						X		
9:15	10/6/2023	S	1 Jar	FS12-07'	2						X		
9:17	10/6/2023	S	1 Jar	FS13-07'	3						X		
10:20	10/6/2023	S	1 Jar	FS15-07'	4						X		
10:42	10/6/2023	S	1 Jar	FS16-18'	5						X		
12:27	10/6/2023	S	1 Jar	SW19 - 0-15'	6						X		
13:56	10/6/2023	S	1 Jar	SW20 - 0-15'	7						X		

Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehaft@ensolum.com (Preserved on ice)

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

Sampled by: Cole Burton

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

Relinquished by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 4:16	Received by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 16:16	Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N T1 T2 T3 AVG Temp °C 4.0
Relinquished by: (Signature) <i>[Signature]</i>	Date 10-6-23	Time 1730	Received by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 17:30	
Relinquished by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 11:11 pm	Received by: (Signature) <i>[Signature]</i>	Date 10/6/23	Time 10:45	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech

Envirotech Analytical Laboratory

Printed: 10/9/2023 10:06:19AM

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:	10/08/23 10:45	Work Order ID:	E310049
Phone:	(972) 371-5200	Date Logged In:	10/06/23 16:20	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/09/23 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/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.



APPENDIX F

NMOCD Notifications

From: [Ashley Giovengo](#)
To: [Enviro, OCD, EMNRD](#); spills@slo.state.nm.us
Cc: clinton.talley@matadorresources.com; [Cole Burton](#); [Chad Hamilton](#); [Ethan Haft](#)
Subject: 48-hour Confirmation Sampling Notification Email - Wool Head Pad D - Incident Number nAPP2325965529
Date: Monday, October 2, 2023 10:29:27 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)

Hello,

We intend to collect confirmation samples at Matador Production Company's, Wool Head Pad D site (Incident Number nAPP2325965529) beginning on Wednesday, October 04, 2023, at 09:00 am MST through Friday, October 06, 2023.

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

Thanks,



Ashley Giovengo

Senior Engineer

575-988-0055

Ensolum, LLC

in f 

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

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

CONDITIONS

Action 278441

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 278441
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	None	2/6/2024