

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.

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com



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 contaminates 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



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** 

Ashley Giovengo

Senior Engineer

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

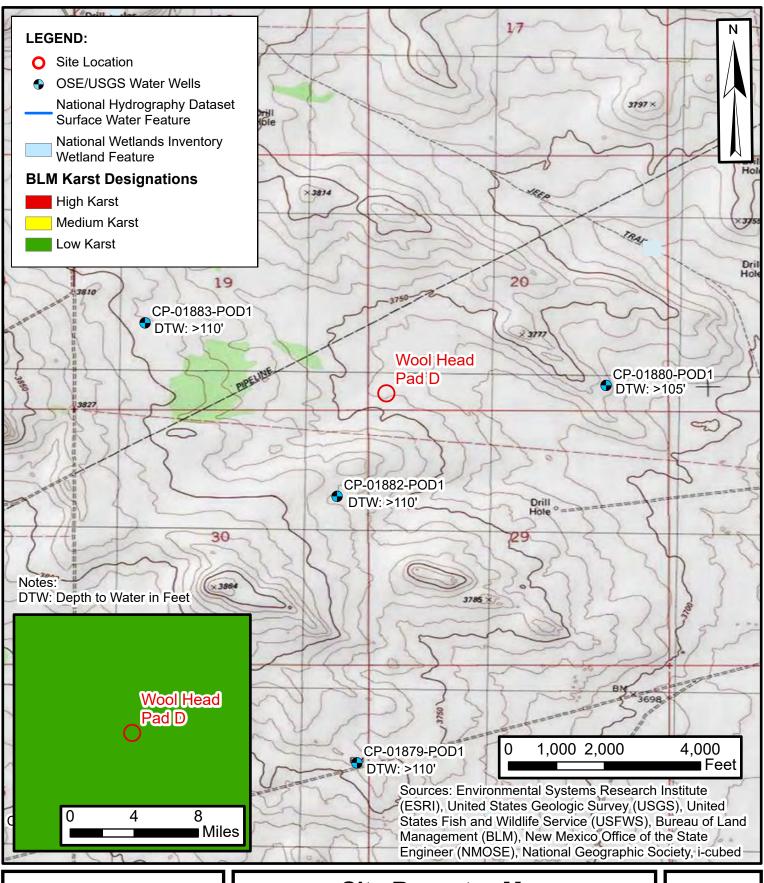
Appendix D Lithologic Soil Sampling Logs

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

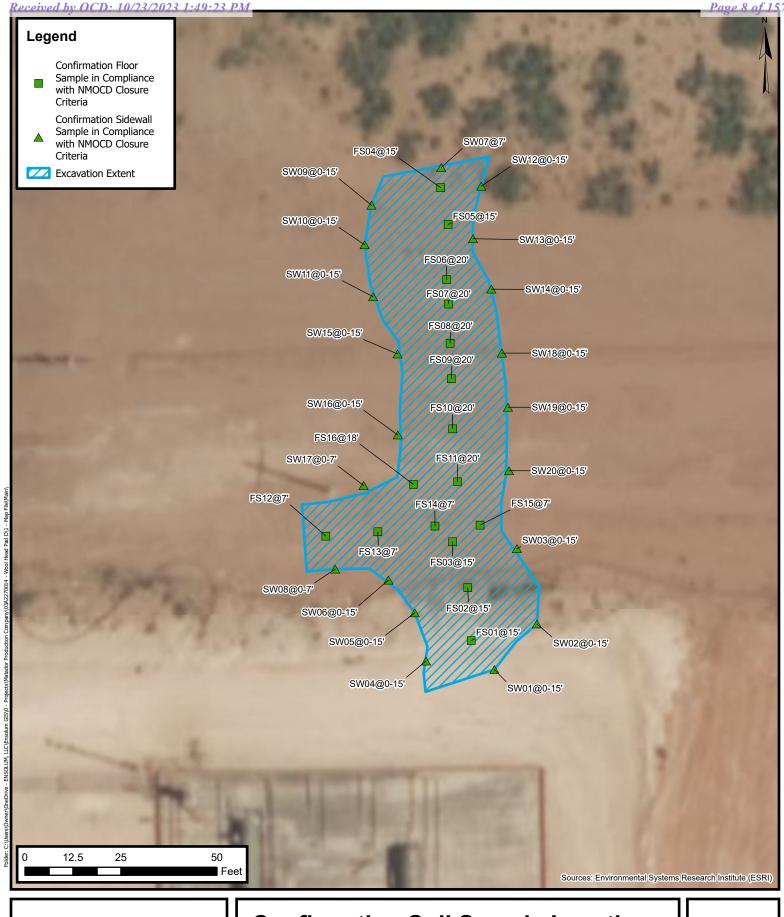
1



# **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





# **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

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**TABLES** 



#### **TABLE 1**

#### SOIL SAMPLE ANALYTICAL RESULTS

Wool Head Pad D Matador Production Company Lea County, New Mexico

	Lou County, Non moxico									
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.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

<sup>\*</sup> 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.



#### TABLE 2

#### SOIL SAMPLE ANALYTICAL RESULTS

**Wool Head Pad D Matador Production Company** Lea County, New Mexico

	Lea Gounty, 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
				Excava	ation Floor Soil S	amples				
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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"<": Laboratory Analytical result is less than reporting limit

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

DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

<sup>\*</sup> 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.



#### 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
				Excavati	on 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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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.

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DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

<sup>\*</sup> 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.



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**

			Respo	onsible Party	y		
Responsible	Party Matad	lor Production Con	npany	OGRID 22	28937		
Contact Nam	e Clint Talle	ey		Contact Te	Contact Telephone (337) 319-8398		
Contact emai	il clinton.tal	ley@matadorresou	rces.com	Incident #	(assigned by OCD) nAPP2325965529		
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240							
			Location	of Release So	ource		
Latitude 32.45	Latitude 32.45861 Longitude -103.60081  (NAD 83 in decimal degrees to 5 decimal places)						
Site Name W	ool Head Pa	id D		Site Type (	Oil Well		
Date Release	Discovered	09/16/2023		API# (if app	plicable)		
Unit Letter	Section	Township	Range	Coun	nty		
L	20	21S	33E	Lea	Lea		
Surface Owner	Surface Owner: State Federal Tribal Private (Name:)  Nature and Volume of Release						
Crude Oil		Volume Release		calculations of specific	Volume Recovered (bbls)		
Produced	Water	Volume Release	d (bbls) 639 bbls		Volume Recovered (bbls) 360 bbls		
		Is the concentrat	ion of dissolved ch >10,000 mg/l?	nloride in the	☐ Yes ☒ No		
Condensa	te	Volume Release	d (bbls)		Volume Recovered (bbls)		
Natural Gas Volume Released (Mcf)		d (Mcf)		Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide u			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.							
$BBL \ Estimate = \left(Saturated \ Soil \ Volume \ (ft^3) \ / 4.21 \left(\frac{ft^3}{bbl} equivalent\right)\right) x \ Estimated \ Soil \ Porosity \ (\%)$ $+ Recovered \ Fluids \ (bbl)$							
$((1.963 \times 1.33) / 4.21)) \times 0.45 + 360.0 = 639 \text{ bbls}$							

Received by OCD: 10/23/2023/1/49/23/PM State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	nAPP2325965529
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respon Volume exceeded 25 bbls.	sible party consider this a major release?				
⊠ Yes □ No						
	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 Re	esponse				
The responsible p	party must undertake the following actions immediately	unless they could create a safety hazard that would result in injury				
The source of the rele	ease has been stopped.					
☐ The impacted area ha	s been secured to protect human health and	the environment.				
Released materials ha	we been contained via the use of berms or d	ikes, absorbent pads, or other containment devices.				
All free liquids and re	ecoverable materials have been removed and	managed appropriately.				
D.: 10 15 20 9 D. (4) NIM						
has begun, please attach	a narrative of actions to date. If remedial e	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred lease attach all information needed for closure evaluation.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Clint Talle		Title: EHS Supervisor				
Signature: Clint	Talley	Date: <u>09/18/2023</u>				
email: <u>Clinton.talley@ma</u>	U	Telephone: <u>337-319-8398</u>				
OCD Only						
Received by: Scott Ro	odgers	Date:09/19/2023				

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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?	>106 (ft bgs)				
Did this release impact groundwater or surface water?					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No				
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No				
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No				
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No				
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No				
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No				
Are the lateral extents of the release overlying a subsurface mine?					
Are the lateral extents of the release overlying an unstable area such as karst geology?					
Are the lateral extents of the release within a 100-year floodplain?					
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	⊠ Yes □ No				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.					
Characterization Report Checklist: Each of the following items must be included in the report.					
<ul> <li>Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li>Field data</li> <li>Data table of soil contaminant concentration data</li> </ul>					
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.

Received by OCD: 10/23/2023 1:49:23 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 17 of 15	7
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:

ClintTalley

Date: 09/18/2023

Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells

Date: 10/23/2023

Date: 10/23/2023

Page 18 of 157

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	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						
	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in					
Printed Name: Clint Talley	Title: EHS Supervisor					
Signature: Clint Talley	Date: <u>10/23/2023</u>					
email: <u>Clinton.talley@matadorresources.com</u>	Telephone: <u>337-319-8398</u>					
OCD Only						
Received by: Shelly Wells	Date: <u>10/23/2023</u>					
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.					
Closure Approved by: Nelson Velez	Date: 02/06/2024					
Printed Name: Nelson Velez	Title:Environmental Specialist – Adv					



**APPENDIX B** 

Referenced Well Records

PAGE 1 OF 2

WELL TAG ID NO.



												····
Z	OSE POD NO POD1 (T		)		WELL TAG ID NO. n/a			OSE FILE NO(S	S).			
T10	WELL OWN							PHONE (OPTIC	ONAL)			
OCA	Advanced							832.672.470				
LL	WELL OWN							CITY		STATE		ZIP
WEL	11490 Wes	stheimer R	d. Stuit 950					Houston		TX	77077	
Ę	WELL		DE	GREES	MINUTES	SECON						
AL A	LOCATIO	- 126	TITUDE	32	N		ACCURACY REQUIRED: ONE TENTH OF A SECOND					
GENERAL AND WELL LOCATION	(FROM GP	S) LO	NGITUDE	103	36	17.	7 W	* DATUM REC	QUIRED: WGS 84			
GE	f		IG WELL LOCATION TO	STREET ADDI	ESS AND COMMON	LANDMA	RKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAII	ABLE	
	SE SE NE	Sec. 30 T	21S R33E									
	LICENSE NO		NAME OF LICENSED						NAME OF WELL DRI			
	124				Jackie D. Atkins						Associates, I	
	DRILLING S' 10/06/		DRILLING ENDED 10/07/2021		MPLETED WELL (FT rary well materia			LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOU! n/a	NTERED (FT)	
									STATIC WATER LEV	EL IN COM	PLETED WE	LL (FT)
z	COMPLETE	O WELL IS:	_ artesian	DRY HO	E SHALLO	W (UNCO	NFINED)			n/a		
TIO	DRILLING F	LUID:	☐ AIR	☐ MUD	ADDITIV	ES – SPEC	IFY:		1			
CASING INFORMATION	DRILLING M	ETHOD:	ROTARY	П намме	CABLE TO	OOL	OTHE	R – SPECIFY:	Hollo	w Stem	Auger	
NFO	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL AND	O/OR		ASING	CASING	CASIN	IG WALL	SLOT
NGI	FROM	то	DIAM	(include	GRADE each casing string,	and	CON	NECTION	INSIDE DIAM.	THIC	KNESS	SIZE
ASI			(inches)	note sections of screen) (add co				YPE ling diameter)	(inches)		ches)	(inches)
38.	0	106	±6.5		Boring- HSA							
DRILLING &		<u> </u>							<u>                                     </u>			
RIE					<del></del>			<del></del> ,				
2. D												
					··				OSE on NO	U 2 20	21 ang 11	7
	-											
		(0 (1 1)	<u> </u>	<u> </u>						<del>1</del>		<u> </u>
7	FROM	(feet bgl)	BORE HOLE DIAM. (inches)	1	ST ANNULAR SE .VEL PACK SIZE-				AMOUNT (cubic feet)		METHO PLACEN	
ERL	FROM	10										
[AT				<del> </del>	,							
KR R												
TOL												
ANNULAR MATERIAL												
ન				-						_		
	L			<u> </u>					<u> </u>			
FOR	OSE INTER	DALUSE	1862		POD NO	`	-	WR-2	0 WELL RECORD ONO.	& LOGO	Version 06/3	0/17)

LOCATION

	DEPTH (1	feet bgl)		COLOR AN	D TYPE OF MATERIAL EN	COUN	TERED -		WA1	TER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	ł	R-BEARING CAVITIES OF plemental sheets to fully de				BEAR (YES	ING?	WATER- BEARING ZONES (gpm)
	0	9	9	Sa	nd, Fine-grained, poorly grad	ed. Red		$\dashv$	Y	√ N	ZOIVES (gpm)
	9	19	10		the, with fine-grained sand, V		n		Y	√ N	
	19	69	50	Sand, Fine-grained, poorly graded, Tan/ Brown						✓N	
	69	79	10	Sand, Fine-grained, poorly graded with clay, Reddish Brown					Y	√N	
	79	106	27		solidated, with fine-grained s				Y	√ N	
ا د									Y	N	
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
OFV					· ·				Y	N	•
90°									Y	N	
IC I								$\neg \uparrow$	Y	N	
503									Y	N	
EOI									Y	N	
ROG									Y	N	
EX.									Y	N	
4.1									Y	N	,
									Y	N	
									Y	N	
									Y	N	
									Y	N	•
									Y	N	
									Y	N	
	METHOD U	ISED TO ES	TIMATE YIELD	OF WATER-BEARING	G STRATA:				L ESTIM		0.00
	PUM	P A	IR LIFT	BAILER OT	HER – SPECIFY:			WEL		(gpm).	0.00
NO	WELL TES				'A COLLECTED DURING ' HOWING DISCHARGE AN						
VISION	MISCELLA	NEOUS IN	FORMATION: To	emnorary well materia	als removed and the soil b	oring ba	ackfilled usin	e drill	cuttings	from to	tal depth to ten
PER					ce, then hydrated bentoni						
G SU											
; RI							)	15E D	II WQU	2 2021	. AMS:117
TEST; RIG SUPERV	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SUPERVIS	SION OF	WELL CON	STRUC	CTION O	THER TH	IAN LICENSEE:
S. T	Shane Eldri	dge, Carme	elo Trevino, Car	meron Pruitt							
TURE	CORRECT	RECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO ID THAT HE OR SHE WILL PLETION OF WELL DRILL	L FILE T					
6. SIGNATURE	Jack At	leins		Jac	ckie D. Atkins				10/28	3/2021	
9		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME	_				DATE	
FΩI	R OSE INTER	NAL USE					WR-20 WEI	LL REC	CORD &	LOG (Ve	rsion 06/30/2017)
	E NO.	THE OBE			POD NO.		TRN NO.				
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



APPENDIX C

Photographic Log

# **ENSOLUM**

### Photographic Log **Matador Production Company** Wool Head Pad D nAPP2325965529



32.458421, -103.600808 ±6 m ▲ 1116 m

Photograph 1 Description: Spill area

View: South

Date: 9/16/23

Photograph 2

Date: 9/19/23

Description: Delineation sampling

View: North





Photograph 3

View: South

Date: 9/19/23

Photograph 4

Date: 9/19/23

Description: Delineation sampling

Description: Delineation sampling PH01

View: East



Photographic Log

Matador Production Company

Wool Head Pad D

nAPP2325965529





Photograph 5
Description: Excavation

View: North

Date: 10/2/23 Photograph 6

Photograph 6 Date: 10/2/23 Description: Waste-containing soil removed

View: East





Date: 10/4/23

Photograph 7 Date: 10/3/23

Description: Hydrovac around pipelines

View: Southwest

Photograph 8

Description: Excavated area

View: North



Photographic Log

Matador Production Company

Wool Head Pad D

nAPP2325965529



Date: 10/5/23



Photograph 9

Description: Excavated Area

View: South

Photograph 10 Date: 10/5/23

Description: Excavation around pipelines

View: West





Date: 10/6/23

Photograph 11
Description: Excavated area

View: West

Date: 10/6/23 Photograph 12

Description: Excavated area

View: South



APPENDIX D

Lithologic Soil Sampling Logs

								Sample Name: PH01 Date: 09/19/2023
	7		NI	C	OI	- 11	RA	Site Name: Wool Head Pad D
			I	3				Incident Number: nAPP2325965529
								Job Number: 03A2270014
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Chad Hamilton Method: Trackhoe
Coord	inates: 32	2.45861,	-103.6	50081				Hole Diameter: 4' Total Depth: 16'
			_					PID for chloride and vapor, respectively. Chloride test 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 <u> </u> -	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 <u>-</u>	<u>6</u>	SP-SC	SAA
W	23,856	NA		PH01	7 _	- - - 7	SP-SC	SAA
М	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
М	17,466	NA		PH01	9 _	9	SP-SC	SAA
М	23,856	NA		PH01	10	_ _ 10	SP-SC	SAA
М	1,982	NA		PH01	11 _	11	SP-SC	SAA
D	190	NA	N	PH01	12	12 12	SP-SC	Light to dark brow with some dark red, Fine- to med-grained sand with some clay comtent, low plasticity, dry, cohesive, massive, uniform, no staining, no odor
М	1,725	NA	Υ	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	Υ	PH01	14 _	14 14	SP-SC	SAA
D	2,122	NA	N	PH01	15 <u>-</u> -	- _ 15 -	SP-SC	Light to dark brow with some dark red, Fine- to med-grained sand with some clay comtent, 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







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Matador Resources, LLC.

Project Name: Wool Head 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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services

Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan

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

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## Sample Summary

Matador Resources, LLC.	Project Name:	Wool Head Pad D	Donoutodi
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
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.



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	9/22/2023 1:28:44PM

### SS01 - 0.5' E309145-01

		E307143-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
p-Xylene	ND	0.0250	1	09/21/23	09/21/23	
o,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		96.2 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	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		87.0 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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		83.9 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: RAS		Batch: 2338071
Chloride	ND	20.0	1	09/21/23	09/21/23	



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	9/22/2023 1:28:44PM

SS02 - 0.5'

		E309145-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B		mg/kg	Ana	lyst: 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		94.4 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2338067
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/21/23	09/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.9 %	70-130	09/21/23	09/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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		88.2 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2338071
Chloride	ND	20.0	1	09/21/23	09/21/23	



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	9/22/2023 1:28:44PM

SS03 - 0.5'

		E309145-03				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ar	nalyst: 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	
p-Xylene	ND	0.0250	1	09/21/23	09/21/23	
o,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	Ar	nalyst: 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	Ar	nalyst: 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	Ar	nalyst: RAS		Batch: 2338071
Chloride	ND	20.0	1	09/21/23	09/21/23	



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	9/22/2023 1:28:44PM

SS04 - 0.5'

		E309145-04				
		Reporting				
Analyte	Result	Limit	Diluti	on 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		95.3 %	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		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	
Surrogate: n-Nonane		89.3 %	50-200	09/21/23	09/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: RAS		Batch: 2338071
Chloride	28.6	20.0	1	09/21/23	09/21/23	



# **Sample Data**

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	9/22/2023 1:28:44PM

#### PH01 - 4' E309145-05

	E309143-03				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	st: RKS		Batch: 2338067
0.385	0.0250	1	09/21/23	09/21/23	
0.287	0.0250	1	09/21/23	09/21/23	
0.869	0.0250	1	09/21/23	09/21/23	
0.224	0.0250	1	09/21/23	09/21/23	
0.776	0.0500	1	09/21/23	09/21/23	
1.00	0.0250	1	09/21/23	09/21/23	
	100 %	70-130	09/21/23	09/21/23	
mg/kg	mg/kg	Analy	st: RKS		Batch: 2338067
26.7	20.0	1	09/21/23	09/21/23	
	87.8 %	70-130	09/21/23	09/21/23	
mg/kg	mg/kg	Analy	st: JL		Batch: 2338065
ND	25.0	1	09/21/23	09/21/23	
ND	50.0	1	09/21/23	09/21/23	
	85.0 %	50-200	09/21/23	09/21/23	
mg/kg	mg/kg	Analy	st: RAS		Batch: 2338071
13700	400	20	09/21/23	09/21/23	
	mg/kg 0.385 0.287 0.869 0.224 0.776 1.00  mg/kg 26.7  mg/kg ND ND	Result         Reporting Limit           mg/kg         mg/kg           0.385         0.0250           0.287         0.0250           0.869         0.0250           0.776         0.0500           1.00         0.0250           100 %           mg/kg         mg/kg           26.7         20.0           87.8 %         mg/kg           ND         25.0           ND         50.0           85.0 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy           0.385         0.0250         1           0.287         0.0250         1           0.869         0.0250         1           0.776         0.0500         1           1.00         0.0250         1           100 %         70-130           mg/kg         mg/kg         Analy           26.7         20.0         1           87.8 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           85.0 %         50-200           mg/kg         mg/kg         Analy	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           0.385         0.0250         1         09/21/23           0.287         0.0250         1         09/21/23           0.869         0.0250         1         09/21/23           0.776         0.0500         1         09/21/23           1.00         0.0250         1         09/21/23           mg/kg         mg/kg         Analyst: RKS           26.7         20.0         1         09/21/23           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/21/23           ND         50.0         1         09/21/23           ND         50.0         1         09/21/23           mg/kg         mg/kg         Analyst: JL	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           0.385         0.0250         1         09/21/23         09/21/23           0.287         0.0250         1         09/21/23         09/21/23           0.869         0.0250         1         09/21/23         09/21/23           0.224         0.0250         1         09/21/23         09/21/23           0.776         0.0500         1         09/21/23         09/21/23           1.00         0.0250         1         09/21/23         09/21/23           mg/kg         mg/kg         Analyst: RKS           26.7         20.0         1         09/21/23         09/21/23           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         09/21/23         09/21/23           ND         25.0         1         09/21/23         09/21/23         09/21/23           ND         50.0         1         09/21/23         09/21/23           85.0 %         50-200         09/21/23         09/21/23           mg/kg         mg/kg         Analyst: RAS </td



# **Sample Data**

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	9/22/2023 1:28:44PM

#### PH01 - 12' E309145-06

	E309143-00				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2338067
ND	0.0250	1	09/21/23	09/21/23	
ND	0.0250	1	09/21/23	09/21/23	
ND	0.0250	1	09/21/23	09/21/23	
ND	0.0250	1	09/21/23	09/21/23	
ND	0.0500	1	09/21/23	09/21/23	
ND	0.0250	1	09/21/23	09/21/23	
	95.7 %	70-130	09/21/23	09/21/23	
mg/kg	mg/kg	Anal	yst: RKS		Batch: 2338067
ND	20.0	1	09/21/23	09/21/23	
	88.1 %	70-130	09/21/23	09/21/23	
mg/kg	mg/kg	Anal	yst: JL		Batch: 2338065
ND	25.0	1	09/21/23	09/21/23	
ND	50.0	1	09/21/23	09/21/23	
	89.4 %	50-200	09/21/23	09/21/23	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2338071
273	20.0	1	09/21/23	09/21/23	
	ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Reporting Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         0.0250           MD         20.0250           MB/kg         mg/kg           MB/kg         mg/kg           ND         20.0           88.1 %         mg/kg           ND         25.0           ND         50.0           89.4 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Anal           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         25.7 %         70-130           mg/kg         mg/kg         Anal           ND         20.0         1           88.1 %         70-130           mg/kg         mg/kg         Anal           ND         25.0         1           ND         50.0         1           89.4 %         50-200           mg/kg         mg/kg         Anal	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         09/21/23           ND         0.0250         1         09/21/23           ND         0.0250         1         09/21/23           ND         0.0500         1         09/21/23           ND         0.0250         1         09/21/23           MD         0.0250         1         09/21/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         09/21/23           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/21/23           ND         50.0         1         09/21/23           ND         50.0         1         09/21/23           ND         50.0         1         09/21/23           89.4 %         50-200         09/21/23           mg/kg         Mg/kg         Analyst: RAS	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         09/21/23         09/21/23           ND         0.0250         1         09/21/23         09/21/23           ND         0.0250         1         09/21/23         09/21/23           ND         0.0500         1         09/21/23         09/21/23           ND         0.0250         1         09/21/23         09/21/23           ND         0.0250         1         09/21/23         09/21/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         09/21/23         09/21/23           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         09/21/23         09/21/23           ND         25.0         1         09/21/23         09/21/23         09/21/23           ND         50.0         1         09/21/23         09/21/23           ND         50.0         1         09/21/23         09/21/23           ND         50.0         0         09/21



		QC 5.	M111111	ii y Dau					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	Vool Head Pad 3052-0001 shley Gioveng					<b>Reported:</b> 9/22/2023 1:28:44PM
		Volatile O	rganics l	by EPA 802	1B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2338067-BLK1)							Prepared: 0	9/21/23 A	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: 0	9/21/23 A	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: 0	9/21/23 A	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			
o,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: 0	9/21/23 A	analyzed: 09/21/23
Benzene	9.80	0.0500	10.0	ND	98.0	54-133	2.23	20	
	0.45		10.0	ND	04.5	(1.122	2.20	20	

9.45

9.79

9.68

19.5

29.2

15.3

0.0500

0.0500

0.0500

0.100

0.0500

10.0

10.0

10.0

20.0

30.0

16.0

ND

ND

ND

ND

ND

94.5

97.9

96.8

97.5

97.3

61-133

61-130

63-131

63-131

63-131

70-130

2.30

2.33

2.38

2.04

2.15

20

20

20

20

20



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

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

Dallas TX, 75240		Project Manage	r: As	hley Gioveng	go			9/22	2/2023 1:28:44PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO		A	nalyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	70	70	70	70	Notes
Blank (2338067-BLK1)							Prepared: 0	9/21/23 Analy	zed: 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: 0	9/21/23 Analy	zed: 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: 0	9/21/23 Analy	zed: 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: 0	9/21/23 Analy	zed: 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			

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

Dallas TX, 75240		Project Manager	r: As	hley Gioveng	go			,	9/22/2023 1:28:44PI
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2338065-BLK1)							Prepared: 0	9/21/23 An	alyzed: 09/21/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.3		50.0		90.5	50-200			
LCS (2338065-BS1)							Prepared: 0	9/21/23 An	alyzed: 09/21/23
Diesel Range Organics (C10-C28)	234	25.0	250		93.7	38-132			
urrogate: n-Nonane	41.6		50.0		83.2	50-200			
Matrix Spike (2338065-MS1)				Source:	E309145-0	06	Prepared: 0	9/21/23 An	alyzed: 09/21/23
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	38-132			
urrogate: n-Nonane	38.1		50.0		76.1	50-200			
Matrix Spike Dup (2338065-MSD1)				Source:	E309145-0	06	Prepared: 0	9/21/23 An	alyzed: 09/21/23
Diesel Range Organics (C10-C28)	239	25.0	250	ND	95.6	38-132	2.99	20	
'urrogate: n-Nonane	40.1		50.0		80.3	50-200			

Matrix Spike Dup (2338071-MSD1)

Chloride

267

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	2	Vool Head Pad 3052-0001 Ashley Giovens					<b>Reported:</b> 9/22/2023 1:28:44PM
,		Anions	by EPA	300.0/9056 <i>A</i>	<u> </u>				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
Blank (2338071-BLK1)							Prepared: 0	9/21/23 A	nalyzed: 09/21/23
Chloride	ND	20.0							
LCS (2338071-BS1)							Prepared: 0	9/21/23 A	nalyzed: 09/21/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2338071-MS1)				Source:	E309145-	01	Prepared: 0	9/21/23 A	nalyzed: 09/21/23
Chloride	265	20.0	250	ND	106	80-120			

250

20.0

Source: E309145-01

107

80-120

0.947

ND

#### 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.



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

20

### **Definitions and Notes**

Matador Resources, LLC	. Project Name	: Wool Head Pad D	
5400 LBJ Freeway, Suite	1500 Project Numb	per: 23052-0001	Reported:
Dallas TX, 75240	Project Mana	ger: 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.



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envirotech

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

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	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)		
C1 . 0	20 4 1 4000					
	Custody (COC)		37			
	he sample ID match the COC? he number of samples per sampling site location matc	h the COC	Yes			
	amples dropped off by client or carrier?	ii ui <b>c</b> coc	Yes Yes	Ci Ci		
	e COC complete, i.e., signatures, dates/times, requesto	ed analyses?	Yes	Carrier: <u>Courier</u>		
	ill samples received within holding time?	ou unary ses.	Yes			
	Note: Analysis, such as pH which should be conducted in ti.e, 15 minute hold time, are not included in this disucssion				Comment	s/Resolution
	<u>Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (						
	sample cooler received?		Yes			
	was cooler received in good condition?		Yes			
9. Was th	e 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			
	ne sample received on ice? If yes, the recorded temp is 4°C, i.  Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample to	received w/i 15	Yes <u>C</u>			
Sample (	<u>Container</u>					
	queous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
18. Are n	on-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containe	rs collected?	Yes			
Field La	<u>bel</u>					
20. Were	field sample labels filled out with the minimum inform	mation:				
	ample ID?		Yes			
	Oate/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation the COC on field labels indicate the semales were made	aamsad0	NI-			
	the COC or field labels indicate the samples were pre	servea?	No			
	ample(s) correctly preserved? filteration required and/or requested for dissolved me	tolo?	NA N-			
		tais?	No			
	ase Sample Matrix	0				
	the sample have more than one phase, i.e., multiphase		No			
27. If yes	, does the COC specify which phase(s) is to be analyz	red?	NA			
	ract Laboratory					
	amples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

Report to:
Ashley Giovengo







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Wool Head 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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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ljarboe@envirotech-inc.com

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Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

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

#### PH01 - 15' E309148-01

	E309140-01				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	•		·	Batch: 2338070
ND	0.0250	1	09/21/23	09/22/23	
ND	0.0250	1	09/21/23	09/22/23	
ND	0.0250	1	09/21/23	09/22/23	
ND	0.0250	1	09/21/23	09/22/23	
ND	0.0500	1	09/21/23	09/22/23	
ND	0.0250	1	09/21/23	09/22/23	
	95.0 %	70-130	09/21/23	09/22/23	
mg/kg	mg/kg mg/kg		lyst: IY		Batch: 2338070
ND	20.0	1	09/21/23	09/22/23	
	93.9 %	70-130	09/21/23	09/22/23	
mg/kg	mg/kg	Ana	lyst: JL		Batch: 2338077
ND	25.0	1	09/21/23	09/22/23	
ND	50.0	1	09/21/23	09/22/23	
	98.7 %	50-200	09/21/23	09/22/23	
mg/kg	mg/kg	Ana	lyst: RAS		Batch: 2338078
284	20.0	1	09/21/23	09/22/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Reporting Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           mg/kg         mg/kg           MD         20.0           93.9 %         mg/kg           MD         25.0           ND         50.0           98.7 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Ana           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         0.0250         1           95.0%         70-130         70-130           mg/kg         mg/kg         Ana           ND         20.0         1           Mg/kg         mg/kg         Ana           ND         25.0         1           ND         50.0         1           Mg/kg         Mg/kg         Ana           Mg/kg         Mg/kg         Ana	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         09/21/23           ND         0.0250         1         09/21/23           ND         0.0250         1         09/21/23           ND         0.0250         1         09/21/23           ND         0.0500         1         09/21/23           ND         0.0250         1         09/21/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         09/21/23           mg/kg         mg/kg         Analyst: JL           ND         25.0         1         09/21/23           ND         50.0         0         09/21/23           ND         50.0         0         09/21/23	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         09/21/23         09/22/23           ND         0.0250         1         09/21/23         09/22/23           ND         0.0250         1         09/21/23         09/22/23           ND         0.0500         1         09/21/23         09/22/23           ND         0.0250         1         09/21/23         09/22/23           ND         0.0250         1         09/21/23         09/22/23           mg/kg         mg/kg         Analyst: IY         ND         09/22/23           mg/kg         mg/kg         Analyst: IY         ND         20.0         1         09/21/23         09/22/23           mg/kg         mg/kg         Analyst: JL         ND         25.0         1         09/21/23         09/22/23           ND         25.0         1         09/21/23         09/22/23           ND         50.0         1         09/21/23         09/22/23           ND         50.0         1         09/21/23         09/22/23



Wool Head Pad D Matador Resources, LLC. Project Name: 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 Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2338070-BLK1) Prepared: 09/21/23 Analyzed: 09/22/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 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 5.05 5.00 101 70-130 Benzene 0.0250 Ethylbenzene 4.97 0.0250 5.00 99.4 70-130 5.03 0.0250 5.00 101 70-130 Toluene o-Xylene 4.98 0.0250 5.00 99.6 70-130 10.1 10.0 101 70-130 0.0500 p.m-Xvlene 101 70-130 15.1 15.0 Total Xylenes 0.0250 8.00 94.4 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.55 Matrix Spike (2338070-MS1) Source: E309147-02 Prepared: 09/21/23 Analyzed: 09/21/23 5.16 0.0250 5.00 ND 54-133 Benzene ND 102 61-133 Ethylbenzene 5.08 0.0250 5.00 Toluene 5.14 0.0250 5.00 ND 103 61-130 ND 102 63-131 5.10 5.00 0.0250 o-Xylene p,m-Xylene 10.3 0.0500 10.0 ND 103 63-131 15.4 0.0250 15.0 ND 63-131 Total Xylenes 70-130 Surrogate: 4-Bromochlorobenzene-PID 7.56 8.00 Matrix Spike Dup (2338070-MSD1) Source: E309147-02 Prepared: 09/21/23 Analyzed: 09/21/23 5.11 0.0250 5.00 ND 102 54-133 1.13 20 ND 61-133 5.02 0.0250 5.00 100 1.16 20 Ethylbenzene

5.08

5.04

10.2

15.2

7.54

0.0250

0.0250

0.0500

0.0250

5.00

5.00

10.0

15.0

8.00

ND

ND

ND

ND

102

101

102

102

94.3

61-130

63-131

63-131

63-131

70-130

1.05

1.24

1.31

1.29

20

20

20

20



Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

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

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			9/2	5/2023 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	
Blank (2338070-BLK1)							Prepared: 0	9/21/23 Anal	yzed: 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: 0	9/21/23 Anal	yzed: 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: 0	9/21/23 Anal	yzed: 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: 0	9/21/23 Anal	yzed: 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				

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

Danas 1X, 73240		1 Toject Wianage	7 10	mey Gloveng	50				25/2025 12:05:57110	
	Nonhalogenated Organics by EPA 8015D - DRO/ORO								Analyst: JL	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2338077-BLK1)							Prepared: 0	9/21/23 An	alyzed: 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: 0	9/21/23 An	alyzed: 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:	E309141-2	26	Prepared: 0	9/21/23 An	alyzed: 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:	E309141-2	26	Prepared: 0	9/21/23 An	alyzed: 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				

Chloride

Chloride

Chloride

Matrix Spike (2338078-MS1)

Matrix Spike Dup (2338078-MSD1)

267

329

334

## **QC Summary Data**

Matador Resources, LLC. Project Name: Wool Head Pad D 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001						Reported:					
Dallas TX, 75240		Project Manager	r: A	Ashley Giovengo					9/25/2023 12:05:39PM		
		Anions by EPA 300.0/9056A							Analyst: RAS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2338078-BLK1)						I	Prepared: 0	9/21/23 A	analyzed: 09/21/23		
Chloride	ND	20.0									
LCS (2338078-BS1)						F	Prepared: 0	9/21/23 A	nalyzed: 09/21/23		

250

250

250

20.0

200

200

107

131

134

Source: E309144-01

Source: E309144-01

ND

90-110

80-120

80-120

1.64

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

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

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**

l	Matador Resources, LLC.	Project Name:	Wool Head Pad D	
l	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.



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	lanager: Asl		engo		The state of the s	dress: on file	ction co.	припу	Lab W	29	149	8 -		152.0		X		+	-		
	3122 Nation				THE RESERVE TO SERVE THE PARTY OF THE PARTY	y, State, Zip:								is and M							RCR
	e, Zip: Carls				The second secon	one: (337)319-8398			2				T								
Phone: 5	75-988-005	5			Em	ail: clinton.talley@mata	dorresou	irces.com												State	
Email: ag	giovengo@e	nsolum.c	om						RO/		21	0	0	0.0		ΣN		×	NM CO	UT AZ	TX
Report du	ue by:								2/0		y 80	, 826	601	le 30				1000	×		
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		верос		GDOC		Remarks	
13:00	9/19/2023	Soil	1			PH01 - 15'		1								х					
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Addition	al Instructio	ns: Ple	ase CC: c	burton@ensol	um.com	n, agiovengo@ensolum.o	com, cna	anmilton	ı@enso	olum	ı.cor	n									
						hat tampering with or intentionall		g the sample		١,									ived on ice the da is than 6 °C on sub		pled or
	ed by: (Signatu	77	aud and ma	by be grounds for leg	al action.	Sampled by: ( Received by: (Signature)	naa i	Date		ime			patrolica i		UTA SEE	la	hUs	e Only			
No.			10-0-0	120/23 13	:07	Midell Lew	call	9-20-	23	130	57	F	Recei	ved on	ice:		)/ N	National Processing of			
Relinguish	ed by: (Signatu Lllu Gd	re)	Cal	2022 Time	100	Received by (Signature)	Mo	Date 9.20	.23	7	13	00	1			<u>T2</u>					
	ed by: (Signatu	re)	Date	Time		Received by: (Signature)		Date	T	8:											



envirotech 157

envirotech Inc.

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

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	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)					
	ne sample ID match the COC?		Yes			
	ne number of samples per sampling site location ma	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: Couri	<u>ier</u>	
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Comment</u>	s/Resolution
Sample T	<u> Curn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was the	e 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			
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples an minutes of sampling visible ice, record the temperature. Actual sample	re received w/i 15	Yes C			
	Container Container	<u> </u>	_			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	?	Yes			
	appropriate volume/weight or number of sample contai		Yes			
Field Lal	• • • • • • • • • • • • • • • • • • • •					
	field sample labels filled out with the minimum info	ormation:				
S	ample ID?		Yes			
	ate/Time Collected?		Yes			
	ollectors name?		Yes			
	Preservation	10				
	the COC or field labels indicate the samples were p	reserved?	No			
	ample(s) correctly preserved?	. 1.0	NA			
	filteration required and/or requested for dissolved r	netais?	No			
	se Sample Matrix	_				
	the sample have more than one phase, i.e., multipha		No			
27. If yes	, does the COC specify which phase(s) is to be anal	yzed?	NA			
Subcontr	act Laboratory					
28. Are sa	amples required to get sent to a subcontract laborate	ory?	No			
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: NA	A	
Client In	<u>istruction</u>					

Date

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

Report to:
Ashley Giovengo







5796 U.S. Hwy 64 Farmington, NM 87401

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





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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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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West Texas Midland/Odessa Area Rayny Hagan

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

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## **Sample Summary**

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

#### PH01 - 16' E309149-01

		E309149-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Resuit	Limit	Dilution	rrepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: RAS		Batch: 2338078
Chloride	290	20.0	1	09/21/23	09/22/23	



		QC 5	umm	iry Data	и				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	ool Head Pad 3052-0001 shley Gioveng					<b>Reported:</b> 9/25/2023 12:07:16PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2338070-BLK1)							Prepared: 0	9/21/23 A	nalyzed: 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: 0	9/21/23 A	nalyzed: 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: 0	9/21/23 A	nalyzed: 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: 0	9/21/23 A	nalyzed: 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	
T 1	5.00	0.0250	5.00	ND	102	61 120	1.05	20	

5.00

5.00

10.0

15.0

8.00

0.0250

0.0250

0.0500

0.0250

ND

ND

ND

ND

102

101

102

102

94.3

61-130

63-131

63-131

63-131

70-130

20

20

20

20

1.05

1.24

1.31

1.29

5.08

5.04

10.2

15.2

7.54



Toluene

o-Xylene

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

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

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			9/2	5/2023 12:07:16PM
	Non	halogenated	Organics l	by EPA 80	15D - G	RO			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
Blank (2338070-BLK1)							Prepared: 0	9/21/23 Anal	yzed: 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: 0	9/21/23 Anal	yzed: 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: 0	9/21/23 Anal	yzed: 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: 0	9/21/23 Anal	yzed: 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			

Matador Resources, LLC.Project Name:Wool Head Pad DReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo9/25/2023 12:07:16PM

Bullus 171, 732 10		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								
	Nonha	logenated Or	ganics by	EPA 8015I	) - DRO	/ORO			Analyst: JL	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2338077-BLK1)							Prepared: 0	9/21/23 Anal	yzed: 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: 0	9/21/23 Anal	yzed: 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: 0	9/21/23 Anal	yzed: 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:	Source: E309141-26		Prepared: 0	09/21/23 Analyzed: 09/22/2		
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				

Matrix Spike (2338078-MS1)

Matrix Spike Dup (2338078-MSD1)

Chloride

Chloride

329

334

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

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

20

M5

M5

## **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					<b>Reported:</b> 9/25/2023 12:07			
		Anions	by EPA	300.0/9056 <i>E</i>	<b>\</b>				Analyst: RAS	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2338078-BLK1)							Prepared: 0	9/21/23 A	nalyzed: 09/21/23	
Chloride	ND	20.0								
LCS (2338078-BS1)							Prepared: 0	9/21/23 A	nalyzed: 09/21/23	
Chloride	267	20.0	250		107	90-110				

250

250

200

200

Source: E309144-01

Source: E309144-01

131

134

80-120

80-120

1.64

ND

#### 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.



i	Received
	bу
	OCD:
	10/2
	3/2023
	1
	:49:23
	PM

Client: Matador Production Company.		Bill To			Lab U				Jse Only				TA	AT	EPA Pro				
Project: Wool Head Pad D				Attention: Matador Production Company		Lab	Lab WO# E 309/49			Job Number 23052-0001			1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Ashley Giovengo				Address: on file		IE:			9				X				105 418		
Address:	3122 Natio	nal Parks	Hwy		City, State, Zip:								d Metho						RCRA
City, Stat	e, Zip: Carls	bad NM,	88220		Phone: (337)319-8398			by							T				
Phone:	575-988-005	5			Email: clinton.talley@matadorre	esources.com	1	ORO							1			State	
Email: a	giovengo@e	nsolum.c	com					30/0	1			0.		ΣN	1		NM CO	UT AZ	TX
Report d	ue by:							J/DF	802	3260	010	300		1	1	¥	×		
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		GDOC		Remarks	
13:20	9/19/2023	Soil	1		PH01 - 16'	l								х					
	-		<b>F</b>																
					····														
															T				
Addition	al Instructio	ns: Plea	ase CC: c	urton@enso	lum.com, agiovengo@ensolum.com,	chadhmilton	@ei	nsolui	m.co	m									
		0.000		y of this sample. It	am aware that tampering with or intentionally misla	. 1	e loca	tion,			181						eceived on ice the da less than 6 °C on sub		pled or
	ed by: (Signatur		Date	Time	Received by: (Signature)	Date 9-20	23	Time	07	)	Rece	ived	on ice:	L	ab U	se On	nly		
Mice	ed by: (Signatur	when		10.23 1	700 Judien mis	So 9-20	22	Time	73	0	T1			T2			T3		
Relinquish	ed by: (Signatur	me	So Date	20.23 12	2400 Received by: Reignature Mac	9.21.2	23	Time 8:	15		AVG	Tem	p°C	4					
Sample Mat	rix: S - Soil, Sd - S			eous, O - Other		Containe									ass, v	- VOA	A		
Note: Sam samples is	ples are discard applicable only	ed 30 days to those s	s after resu amples rec	ts are reported u eived by the labo	inless other arrangements are made. Hazardo ratory with this COC. The liability of the labora	ous samples will story is limited t	be re	eturned	to cli	ient o	r dispo	osed o	of at the cl t.	ient e	xpens	e. The	e report for the	analysis of t	ne above



ent expense. The report for the analysis of the above

envirotection

Page

Page

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

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	09/21/23 08	8:15		Work Order ID:	E309149
Phone:	(972) 371-5200	Date Logged In:	09/20/23 14	4:41		Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:		7:00 (4 day TAT)		25 ,	
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	itch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>ourier</u>		
	e COC complete, i.e., signatures, dates/times, reque	ested analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted i.e, 15 minute hold time, are not included in this disucss		Yes			<u>Comment</u>	s/Resolution
	<u> Urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	C <u>ooler</u> sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
• 1	e sample(s) received intact, i.e., not broken?						
			Yes				
	custody/security seals present?		No				
	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C Note: Thermal preservation is not required, if samples a minutes of sampling	re received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample	e temperature: 4°0	<u>C</u>				
Sample C							
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
18. Are no	on-VOC samples collected in the correct containers	s?	Yes				
19. Is the a	appropriate volume/weight or number of sample contain	iners collected?	Yes				
Field Lab	<del></del>						
	field sample labels filled out with the minimum inf	ormation:	7.7				
	ample ID? ate/Time Collected?		Yes				
	ollectors name?		Yes Yes				
	reservation		103				
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?		NA				
	filteration required and/or requested for dissolved	metals?	No				
Multinha	se Sample Matrix						
	the sample have more than one phase, i.e., multipha	ase?	No				
	, does the COC specify which phase(s) is to be anal		NA				
		<b>y</b>	1421				
	act Laboratory	- Promote	No				
	amples required to get sent to a subcontract laborate subcontract laboratory specified by the client and	-	No NA	Subcontract Lab	• NI A		
		ii so wiio:	11/2	Subcontract Lab	. NA		
Client Ir	<u>istruction</u>						

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

**-** (

Date

envirotech Inc.

Report to:
Ashley Giovengo







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Wool Head 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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

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West Texas Midland/Odessa Area

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	Donoutod
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/06/23 15:10

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
	Suo sumpa 15		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
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.

ſ	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	10/6/2023 3:10:51PM

## FS01 - 15' E310035-01

	E510055-01				
D 1	Reporting	D.1 (	D 1		N
Result	Limit	Dilutio	on Prepared	Analyzed	Notes
mg/kg	mg/kg	A	nalyst: RKS		Batch: 2340093
ND	0.0250	1	10/06/23	10/06/23	
ND	0.0250	1	10/06/23	10/06/23	
ND	0.0250	1	10/06/23	10/06/23	
ND	0.0250	1	10/06/23	10/06/23	
ND	0.0500	1	10/06/23	10/06/23	
ND	0.0250	1	10/06/23	10/06/23	
	109 %	70-130	10/06/23	10/06/23	
	96.0 %	70-130	10/06/23	10/06/23	
	83.4 %	70-130	10/06/23	10/06/23	
mg/kg	mg/kg	A	nalyst: RKS		Batch: 2340093
ND	20.0	1	10/06/23	10/06/23	
	109 %	70-130	10/06/23	10/06/23	
	96.0 %	70-130	10/06/23	10/06/23	
	83.4 %	70-130	10/06/23	10/06/23	
mg/kg	mg/kg	Ai	nalyst: JL		Batch: 2340094
ND	25.0	1	10/06/23	10/06/23	_
ND	50.0	1	10/06/23	10/06/23	
	94.1 %	50-200	10/06/23	10/06/23	
mg/kg	mg/kg	Ai	nalyst: BA		Batch: 2340099
416	20.0	1	10/06/23	10/06/23	
	ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           IO9 %         96.0 %           83.4 %         mg/kg           ND         20.0           109 %         96.0 %           83.4 %         mg/kg           MD         25.0           ND         50.0           94.1 %         mg/kg           mg/kg         mg/kg	Result         Limit         Diluti           mg/kg         mg/kg         A           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         96.0 %         70-130           mg/kg         mg/kg         A           ND         20.0         1           109 %         70-130         70-130           96.0 %         70-130         83.4 %         70-130           mg/kg         mg/kg         A           ND         25.0         1           ND         50.0         1           94.1 %         50-200           mg/kg         Mg/kg	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/06/23           ND         0.0250         1         10/06/23           ND         0.0250         1         10/06/23           ND         0.0250         1         10/06/23           ND         0.0500         1         10/06/23           ND         0.0250         1         10/06/23           ND         70-130         10/06/23           96.0 %         70-130         10/06/23           83.4 %         70-130         10/06/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/06/23           83.4 %         70-130         10/06/23           83.4 %         70-130         10/06/23           83.4 %         70-130         10/06/23           83.4 %         70-130         10/06/23           Mg/kg         mg/kg         Analyst: JL           ND         25.0         1         10/06/23           ND         50.0         1         10/06/23           Mg/kg <td>Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/06/23         10/06/23           ND         0.0250         1         10/06/23         10/06/23           ND         0.0250         1         10/06/23         10/06/23           ND         0.0500         1         10/06/23         10/06/23           ND         0.0250         1         10/06/23         10/06/23           96.0 %         70-130         10/06/23         10/06/23           96.0 %         70-130         10/06/23         10/06/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/06/23         10/06/23           96.0 %         70-130         10/06/23         10/06/23           83.4 %         70-130         10/06/23         10/06/23           83.4 %</td>	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         10/06/23         10/06/23           ND         0.0250         1         10/06/23         10/06/23           ND         0.0250         1         10/06/23         10/06/23           ND         0.0500         1         10/06/23         10/06/23           ND         0.0250         1         10/06/23         10/06/23           96.0 %         70-130         10/06/23         10/06/23           96.0 %         70-130         10/06/23         10/06/23           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         10/06/23         10/06/23           96.0 %         70-130         10/06/23         10/06/23           83.4 %         70-130         10/06/23         10/06/23           83.4 %



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	10/6/2023 3:10:51PM

## FS02 - 15' E310035-02

		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: 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		A	nalyst: 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	A	nalyst: 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	ma/ka	ma/ka	Δ	.nalyst: BA		Batch: 2340099
Amons by EPA 500.0/9050A	mg/kg	mg/kg	71	maryst: B11		Buten: 23 10077

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	10/6/2023 3:10:51PM

## FS03 - 15' E310035-03

		E510055-05					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
					•		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2340093
Benzene	ND	0.0250	1	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	1	10/06/23	10/06/23	
Toluene	ND	0.0250	1	1	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	1	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	1	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	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	l	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	1	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	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	1	10/06/23	10/06/23	

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	10/6/2023 3:10:51PM

## FS04 - 15' E310035-04

		E310035-04					
	D. I.	Reporting			D 1		N. A
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	RKS		Batch: 2340093
Benzene	ND	0.0250	1	l	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	1	l	10/06/23	10/06/23	
Toluene	ND	0.0250	1	l	10/06/23	10/06/23	
o-Xylene	ND	0.0250	1	l	10/06/23	10/06/23	
p,m-Xylene	ND	0.0500	1	l	10/06/23	10/06/23	
Total Xylenes	ND	0.0250	1	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: 1	RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	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	l	10/06/23	10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	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: 1	BA		Batch: 2340099
Chloride	442	20.0	1	1	10/06/23	10/06/23	



Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/6/2023 3:10:51PM

## FS05 - 15' E310035-05

		1010000 00				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: IY	<u> </u>	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	An	alyst: 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	An	alyst: 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	An	alyst: BA		Batch: 2340099
Chloride	394	20.0	1	10/06/23	10/06/23	

Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/6/20233:10:51PM

## SW01 - 0-15' E310035-06

		E510055-00				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Allaryte	Result	Limit	Dilui	non Frepared	Allaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	A	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	A	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	A	Analyst: BA		Batch: 2340099
Chloride	262	20.0	1	10/06/23	10/06/23	



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	10/6/2023 3:10:51PM

## SW02 - 0-15' E310035-07

		E310033-07				
		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	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	1	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	1	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	



Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/6/2023 3:10:51PM

### SW03 - 0-15'

		E310035-08					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2340093
Benzene	ND	0.0250	1	1	10/06/23	10/06/23	
Ethylbenzene	ND	0.0250	į	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
-							

20.0

10/06/23

10/06/23

ND



Chloride

Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/6/2023 3:10:51PM

## SW04 - 0-15' E310035-09

		E510055-07				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Analyte	Result	Limit	Dilut	ion Prepared	Anaryzeu	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	A	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	A	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	A	Analyst: BA		Batch: 2340099
Chloride	295	20.0	1	10/06/23	10/06/23	



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	10/6/2023 3:10:51PM

## SW05 - 0-15' E310035-10

		E310033-10					
Analyte	Result	Reporting Limit	Dib	ution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dili	ution	Trepared	Allaryzeu	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	: Л		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	



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	10/6/2023 3:10:51PM

## SW06 - 0-15' E310035-11

		E510055-11				
Analyte	Result	Reporting Limit	Dilut	tion Prepared	l Analyzed	Notes
Maye				1	7 Mary Zed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	<i>F</i>	Analyst: RKS		Batch: 2340093
Benzene	ND	0.0250	1	10/06/23	3 10/06/23	
Ethylbenzene	ND	0.0250	1	10/06/23	3 10/06/23	
Toluene	ND	0.0250	1	10/06/23	3 10/06/23	
o-Xylene	ND	0.0250	1	10/06/23	3 10/06/23	
p,m-Xylene	ND	0.0500	1	10/06/23	3 10/06/23	
Total Xylenes	ND	0.0250	1	10/06/23	3 10/06/23	
Surrogate: Bromofluorobenzene		111 %	70-130	10/06/23	3 10/06/23	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	10/06/23	3 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	A	Analyst: RKS		Batch: 2340093
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	3 10/06/23	
Surrogate: Bromofluorobenzene		111 %	70-130	10/06/23	3 10/06/23	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	10/06/23	3 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	A	Analyst: JL		Batch: 2340094
Diesel Range Organics (C10-C28)	ND	25.0	1	10/06/23	3 10/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/06/23	3 10/06/23	
Surrogate: n-Nonane		97.4 %	50-200	10/06/23	3 10/06/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2340099
Chloride	28.5	20.0	1	10/06/23	3 10/06/23	



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	10/6/2023 3:10:51PM

## SW07 - 7' E310035-12

		E310035-12					
	D 1	Reporting	D.I		D 1		N.
Analyte	Result	Limit	Dilt	ıtion	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**

Γ	Matador Resources, LLC.	Project Name:	Wool Head Pad D	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
l	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.



Client: Matador Production Company.

Project Manager: Ashley Giovengo

Address: 3122 National Parks Hwy

Email: agiovengo@ensolum.com

Date Sampled

10/4/2023

10/4/2023

10/4/2023

10/4/2023

10/4/2023

10/4/2023

10/4/2023

10/4/2023

10/4/2023

10:36 | 10/4/2023

City, State, Zip: Carlsbad NM, 88220

No. of

Containers

1 Jar

Sample ID

Matrix

Soil

Soil

Soil

Soil

Soil

Soil

Soil

Soil

Soil

Project: Wool Head Pad D

Phone: 575-988-0055

Report due by:

Time

Sampled

9:40

10:05

10:52

14:10

15:03

10:12

11:27

11:56

10:41

Lab

Number

3

4

0

8

9

Lab WO#

TPH GRO/DRO/ORO by

BTEX by 8021

Lab Use Only

E310035 23052.0001 x

Job Number

Analysis and Method

Bill To

Email: clinton.talley@matadorresources.com

Attention: Matador Production Company

Address: on file

City, State, Zip:

FS01 - 15'

FS02 - 15'

FS03 - 15'

FS04 - 15'

FS05 - 15'

SW01 - 0-15'

SW02 - 0-15'

SW03 - 0-15'

SW04 - 0-15'

SW05 - 0-15'

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.

Phone: (337)319-8398

TA			PA Pr		
3D	Standard	CV	VA	SD	WA
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10:36 10/4/2023	Soil 1	Jar	5	W05 - 0-15		10			x	
Additional Instructions:	Please C	CC: cburton@e	ensolum.com,	agiovengo@enso	olum.com, cha	milton@ensol	um.com, eha	ft@ensolum.com		
I, (field sampler), attest to the va date or time of collection is consi				at tampering with or in		ling the sample loca	ition,	English - and Order Williams - Access - Access	*CONTRACTOR CONTRACTOR	ed on ice the day they are sampled or than 6 °C on subsequent days.
Relinquished by: (Signature)		Date 10-5-23	6:35	Received by: (Signat	ure) Guay des	Date 10-5-23	Time 1045	Received on ice:	Lab Use Only (Y) / N	
Relinquished by: (Signature)  Wille Long	9	Date 10-523	1630	Received by: (Signat	mh/CSo	lo.6.22	Time 19/30	T1	<u>T2</u>	<u>T3</u>
Relinquished by: (Signature)	550	10.6.23	Time 0/30	Received by: (Signat		Date 10/6/23	Time 615	AVG Temp °C	4_	
Sample Matrix: S - Soil, Sd - Solid	, <b>Sg</b> - Sludge, <b>A</b>	A - Aqueous, <b>O</b> - Otl	her	//		Container Typ	e: <b>g -</b> glass, <b>p</b> -	poly/plastic, ag - am	ber glass, v - VOA	
Note: Samples are discarded	ote: 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									



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Project Ir	nformation					Chain of Cust	ody										Р	age _
Client: N	Natador Prod	luction C	ompany.		Bill To			La	ab Us	e Or	nlv		Т		TAT		EPA P	rogran
	Wool Head I				Attention: Matador Produ	uction Company	Lab WO				Numbe	er	1D	2D		Standard	CWA	SDW
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	e, Zip: Carls				Phone: (337)319-8398		2	T -			1	T	Ť		Т			110
	575-988-005		00110		Email: clinton.talley@mat	adorresources cor			F			1				U-AND ROBERTS	State	
	giovengo@e		om		Email: clinton.taney@mat	addiresources.cor	100		100				5			NMI CO	UT AZ	ТтхТ
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Time			No. of			Lab	SRO	by 8	by 8	)9 SI	ide		8		U	×		
Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Number	TPH GRO/DRO/ORO by	BTEX by 8021	VOC by	Metals 6010	Chloride 300.0		BGDOC		СБОС		Remarks	i.
	10/4/2023				SW06 - 0-15'	i i i	- «	ω α	>		0	+-	- m	-				
12.33	10/4/2023	Soil	1 Jar		30000-0-13	111							Х					
12:30	10/4/2023				SW07 - 7'	io							-					
12.50	10/4/2023	Soil	1 Jar		3007-7	112							х					
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Addition	al Instructio	ns: Plea	ise CC: cl	ourton@ensol	um.com, agiovengo@ensolum.	com, chamilton@	ensolum.	com,	ehaf	t@e	nsolum	.com						
										la 1			usoboen (m)					
					am aware that tampering with or intentions	ally mislabelling the samp	le location,									ived on ice the day s than 6 °C on subs		iled or
		A STATE OF THE STA		y be grounds for le		T					- poete a		119	-			- quentaujs.	
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envirotech Inc.

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

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	10/06/23 0	06:15	Work Order	r ID:	E310035
Phone:	(972) 371-5200	Date Logged In:	10/05/23 1	6:06	Logged In 1	Ву:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	10/06/23 1	17:00 (0 day TAT)	-	•	
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	e number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: Cou	<u>ırier</u>		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were al	Il samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes		<u>Con</u>	ıment	ts/Resolution
Sample T	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C	<u>Cooler</u>						
7. Was a s	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e 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				
	e sample received on ice? If yes, the recorded temp is 4°C.  Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes				
Sample C			-				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	9	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	· · ·	ners concerca.	105				
	field sample labels filled out with the minimum info	ormation:					
	ample ID?	ormation.	Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
-	imples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and i	-	NA	Subcontract Lab: N	NA		
				Subcontract East. 1			
Chent In	<u>istruction</u>						

Date

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

Report to:
Ashley Giovengo







5796 U.S. Hwy 64 Farmington, NM 87401

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





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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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

labadmin@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Golzales

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

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Γ	Matador Resources, LLC.	Project Name:	Wool Head Pad D	Donoutodi
١	5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
l	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.



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	10/11/2023 11:31:15AM

## SS05-0' E310043-01

		Reporting				
Analyte	Result	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	

Surrogate: 4-Bromochlorobenzene-PID		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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		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
Nonhalogenated Organics by EPA 8015D - DRO/ORO Diesel Range Organics (C10-C28)	mg/kg ND	mg/kg 25.0		Analyst	: JL 10/09/23	10/10/23	Batch: 2341007
				Analyst  1 1		10/10/23 10/10/23	Batch: 2341007

Surrogate: n-Nonane		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	

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	10/11/2023 11:31:15AM

### SS06-0'

### E310043-02

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: 4-Bromochlorobenzene-PID		96.3 %	70-130	10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2340110
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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	
Surrogate: n-Nonane		95.8 %	50-200	10/09/23	10/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2340101
Chloride	ND	20.0	1	10/06/23	10/10/23	



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	10/11/2023 11:31:15AM

### SS07-0'

### E310043-03

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: 4-Bromochlorobenzene-PID		94.9 %	70-130	10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2340110
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/06/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	10/06/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: 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	
Surrogate: n-Nonane		86.4 %	50-200	10/09/23	10/10/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2340101
Chloride	ND	20.0	1	10/06/23	10/10/23	



		QC 50	u1111116	ary Dat	a				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	2:	Vool Head Pad 3052-0001					Reported: 10/11/2023 11:31:15AM
Dallas TX, 75240		Project Manager:	A	shley Gioven	go				10/11/2023 11:51:15AM
		Volatile O	rganics l	by EPA 802	21B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2340110-BLK1)							Prepared:	10/06/23 <i>A</i>	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 A	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 A	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 A	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	
•									

10.0

15.0

8.00

0.0500

0.0250

ND

ND

99.4

98.8

63-131

63-131

70-130

0.281

0.299

20

20



p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

9.94

14.8

7.63

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

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go			10/	/11/2023 11:31:15A
	Nor	halogenated	Organics	by EPA 80	15D - G	RO			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	70	70	70	70	Notes
Blank (2340110-BLK1)							Prepared: 1	0/06/23 Ana	lyzed: 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: 1	0/06/23 Ana	lyzed: 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: 1	0/06/23 Ana	lyzed: 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: 1	0/06/23 Ana	lyzed: 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			

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

Danas 1A, 73240		1 Toject Ivianage	7.5	micy Gloveng	30			- 1	9/11/2029 11:91:1911
	Nonha	logenated Or	ganics by l	EPA 8015I	O - DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341007-BLK1)							Prepared: 1	0/09/23 An	alyzed: 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: 1	0/09/23 An	alyzed: 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:	E310040-0	07	Prepared: 1	0/09/23 An	alyzed: 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:	E310040-0	07	Prepared: 1	0/09/23 An	alyzed: 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			

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

		Anions	by EPA 3	00.0/9056	4				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
Blank (2340101-BLK1)							Prepared: 1	0/06/23 Anal	yzed: 10/08/23
Chloride	ND	20.0							
LCS (2340101-BS1)							Prepared: 1	0/06/23 Anal	yzed: 10/08/23
Chloride	244	20.0	250		97.7	90-110			
Matrix Spike (2340101-MS1)				Source:	E310036-	01	Prepared: 1	0/06/23 Anal	yzed: 10/08/23
Chloride	379	20.0	250	129	99.9	80-120			
Matrix Spike Dup (2340101-MSD1)				Source:	E310036-	01	Prepared: 1	0/06/23 Anal	yzed: 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.



H	Received .
	bу
	OCD:
	10/2
	3
	2023
	1:49:23
	PM

Client: N	Matador Pro	duction (	Company.			Bill To		P. N		La	ab Us	se On	ily				TA	AT		EPA PI	rogram
Project: Wool Head Pad D						Attention: Matador Production Company		Lab WO# Job Number E 310043 23052.0001				CENTER.				ard	CWA	SDWA			
Project Manager: Ashley Giovengo						Address: on file		JE	F310043		3	23052.000					х				
Address: 3122 National Parks Hwy						City, State, Zip:			<u></u>					nd Metho							RCRA
City, State, Zip: Carlsbad NM, 88220						Phone: (337)319-8398			þý												
Phone: 575-988-0055				1.0		Email: clinton.talley@matadori	esources.cor	n	ORO											State	
Email: a	giovengo@e	nsolum.	com						3/0	1			0.0	1 1	ΣZ			NN	CO	UT AZ TX	TX
Report due by:							O/DR	8021	8260	5010	300				¥	×					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number	-	TPH GRO/DRO/ORO by 8015	BTEX by 8	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		GDOC			Remarks		
13:22	10/4/2023	Soil	1 Jar			SS05 - 0'	1								х						
13:45	10/4/2023	Soil	1 Jar			SS06 - 0'	2								х						
13:49	10/4/2023	Soil	1 Jar			SS07 - 0'	3								х						
Addition	al Instructio	ns: Plea	ase CC: cl	ourton@ens	olum.c	om, agiovengo@ensolum.com,	chamilton@	ensc	olum.c	com,	ehaf	t@ei	nsolu	m.com							
to the same of the same of	pler), attest to the					are that tampering with or intentionally mis	labelling the sam	ole loc	cation,			SOCK SOCK SOCK	OHIT COOK BOILS	and the section of th				eceived on ice	02/02/25/25/25/25	they are samp	led or
	ed by (Signatu		Date	Tin		Received by: (Signature)	Date 10-5:	23	Time	245	5	Rece	eived	on ice:	L	ab U	se On	nly			
Relinquish	ed by: (Signatu	re)	Date	Tin		Received by: (Signature)	Date		Time			T1			T2	<i>)</i>		<u>T3</u>			
	ed by: (Signatu	Neso	Date			Regived by (Signature)	- Date 10 - 10	.23	Time	".)	5		Tem	op°C	+						
Sample Mat	trix: <b>S</b> - Soil, <b>Sd</b> - S	iolid, <b>S</b> g - Slu	ıdge, <b>A</b> - Aqı	eous, O - Other		W-30 1. 0	Containe	er Ty	pe:g-	glass,	, p - p		11.310011.72.3		ber g	lass, \	- VO	A			
					d unless o	other arrangements are made. Hazard													or the a	nalysis of t	he above
samples is	applicable only	to those s	amples rec	eived by the la	boratory	with this COC. The liability of the labor	atory is limited	to the	e amou	nt pai	d for	on the	repo	rt.							



e client expense. The report for the analysis of the above

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

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	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)		
<i>-</i>	10 I. (000)					
	f Custody (COC)		••			
	the sample ID match the COC?	h sha COC	Yes			
	the number of samples per sampling site location mate	in the COC	Yes			
	samples dropped off by client or carrier?	- 410	Yes Yes	Carrier: Courier		
	ne COC complete, i.e., signatures, dates/times, request	ed analyses?				
5. were	all samples received within holding time?  Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		Yes		<u>Comment</u>	s/Resolution
	<u> Turn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
<b>Sample</b>						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	he sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes			
Sample	<u>Container</u>					
	aqueous VOC samples present?		No			
15. Are	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field La	bel					
•	field sample labels filled out with the minimum infor	mation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation	10	3.7			
	the COC or field labels indicate the samples were pre	eserved?	No			
	sample(s) correctly preserved?	. 1.0	NA			
	o filteration required and/or requested for dissolved me	etais?	No			
	ase Sample Matrix					
	the sample have more than one phase, i.e., multiphase		No			
27. If ye	s, does the COC specify which phase(s) is to be analyze	zed?	NA			
Subcont	ract Laboratory					
	samples required to get sent to a subcontract laborator, a subcontract laboratory specified by the client and if		No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					
						_

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

Report to:
Ashley Giovengo







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

# **Analytical Report**

Matador Resources, LLC.

Project Name: Wool Head 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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

4 D' 4

Laboratory Administrator Office: 505-632-1881

Raina Schwanz

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## **Sample Summary**

Matador Resources, LLC.Project Name:Wool Head Pad DReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo10/17/23 15:26

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.

Matador Resources, LLC.	Project Name:	Wool Head Pad D	
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Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

#### FS07 - 20' E310047-01

	E310047-01				
P acult		Dilution	Drangrad	Analyzad	Notes
Result	Lillit	Dilution	Frepared	Allalyzed	rotes
mg/kg	mg/kg	Analy	st: IY		Batch: 2341003
ND	0.0250	1	10/09/23	10/09/23	
ND	0.0250	1	10/09/23	10/09/23	
ND	0.0250	1	10/09/23	10/09/23	
ND	0.0250	1	10/09/23	10/09/23	
ND	0.0500	1	10/09/23	10/09/23	
ND	0.0250	1	10/09/23	10/09/23	
	94.0 %	70-130	10/09/23	10/09/23	
mg/kg	mg/kg	Analy	st: IY		Batch: 2341003
ND	20.0	1	10/09/23	10/09/23	
	93.8 %	70-130	10/09/23	10/09/23	
mg/kg	mg/kg	Analy	st: KM		Batch: 2341001
ND	25.0	1	10/09/23	10/09/23	
ND	50.0	1	10/09/23	10/09/23	
	74.8 %	50-200	10/09/23	10/09/23	
mg/kg	mg/kg	Analy	st: BA		Batch: 2341009
3700	40.0	2	10/09/23	10/09/23	
	ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Reporting           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           94.0 %         mg/kg           mg/kg         mg/kg           ND         20.0           93.8 %         mg/kg           ND         25.0           ND         50.0           74.8 %         mg/kg           mg/kg         mg/kg	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           MD         0.0250         1           MD         0.0250         1           Mg/kg         mg/kg         Analy           ND         20.0         1           93.8 %         70-130           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           74.8 %         50-200           mg/kg         mg/kg         Analy	Reporting           Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         10/09/23           ND         0.0250         1         10/09/23           ND         0.0250         1         10/09/23           ND         0.0500         1         10/09/23           ND         0.0250         1         10/09/23           MD         0.0250         1         10/09/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         10/09/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         10/09/23           ND         50.0         1         10/09/23           ND         50.0         1         10/09/23           ND         50.0         1         10/09/23           mg/kg         mg/kg         Analyst: KM	Reporting           Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         10/09/23         10/09/23           ND         0.0250         1         10/09/23         10/09/23           ND         0.0250         1         10/09/23         10/09/23           ND         0.0500         1         10/09/23         10/09/23           ND         0.0250         1         10/09/23         10/09/23           ND         0.0250         1         10/09/23         10/09/23           Mg/kg         mg/kg         Analyst: IY         ND         20.0         1         10/09/23         10/09/23           mg/kg         mg/kg         Analyst: KM         ND         25.0         1         10/09/23         10/09/23           ND         25.0         1         10/09/23         10/09/23         10/09/23           ND         50.0         1         10/09/23         10/09/23           ND         50.0         1         10/09/23         10/09/23           ng/kg         mg/kg         Analyst: BA



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Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

FS08 - 20' E310047-02

		E310047-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Coluene	ND	0.0250	1	10/09/23	10/09/23	
-Xylene	ND	0.0250	1	10/09/23	10/09/23	
o,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		93.7 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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		70.4 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2341009
Chloride	265	20.0	1	10/09/23	10/09/23	



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Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

FS09 - 20' E310047-03

Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Anal	yst: IY		Batch: 2341003
ND	0.0250	1	10/09/23	10/09/23	
ND	0.0250	1	10/09/23	10/09/23	
ND	0.0250	1	10/09/23	10/09/23	
ND	0.0250	1	10/09/23	10/09/23	
ND	0.0500	1	10/09/23	10/09/23	
ND	0.0250	1	10/09/23	10/09/23	
	95.9 %	70-130	10/09/23	10/09/23	
mg/kg	mg/kg	Analy	yst: IY		Batch: 2341003
ND	20.0	1	10/09/23	10/09/23	
	93.7 %	70-130	10/09/23	10/09/23	
mg/kg	mg/kg	Analy	yst: KM		Batch: 2341001
ND	25.0	1	10/09/23	10/09/23	
ND	50.0	1	10/09/23	10/09/23	
	74.3 %	50-200	10/09/23	10/09/23	
mg/kg	mg/kg	Anal	yst: BA		Batch: 2341009
846	20.0	1	10/09/23	10/09/23	
	mg/kg ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           MD         0.0250           MD         20.0250           MD         20.0           93.7 %         mg/kg           MD         25.0           ND         50.0           74.3 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg         Analy           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           95.9 %         70-130           mg/kg         mg/kg         Analy           ND         20.0         1           93.7 %         70-130         1           mg/kg         mg/kg         Analy           ND         25.0         1           ND         50.0         1           74.3 %         50-200           mg/kg         mg/kg         Analy	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         10/09/23           ND         0.0250         1         10/09/23           ND         0.0250         1         10/09/23           ND         0.0500         1         10/09/23           ND         0.0250         1         10/09/23           ND         0.0250         1         10/09/23           mg/kg         mg/kg         Analyst: IY           ND         20.0         1         10/09/23           mg/kg         mg/kg         Analyst: KM           ND         25.0         1         10/09/23           ND         50.0         1         10/09/23           ND         50.0         1         10/09/23           ND         50.0         1         10/09/23           Mg/kg         mg/kg         Analyst: BA	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: IY           ND         0.0250         1         10/09/23         10/09/23           ND         0.0250         1         10/09/23         10/09/23           ND         0.0250         1         10/09/23         10/09/23           ND         0.0500         1         10/09/23         10/09/23           ND         0.0250         1         10/09/23         10/09/23           ND         0.0250         1         10/09/23         10/09/23           Mg/kg         mg/kg         Analyst: IY         ND         20.0         1         10/09/23         10/09/23           mg/kg         mg/kg         Analyst: KM         ND         25.0         1         10/09/23         10/09/23           ND         25.0         1         10/09/23         10/09/23         10/09/23           ND         50.0         1         10/09/23         10/09/23           ND         50.0         1         10/09/23         10/09/23           ND         50.0         1         10/09/23         10/09/23           ND



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#### FS10 - 20' E310047-04

		E310047-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				•	,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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		95.3 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.4 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: 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		75.4 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2341009
Chloride	277	20.0	1	10/09/23	10/09/23	



Matador Resources, LLC.	Project Name:	Wool Head Pad D	
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#### FS11 - 20' E310047-05

		E310047-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
		/Iro	Anal	*		Batch: 2341003
Volatile Organics by EPA 8021B	mg/kg	mg/kg		yst: 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	Anal	yst: 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	Anal	yst: 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	Anal	yst: BA		Batch: 2341009
Chloride	216	20.0	1	10/09/23	10/09/23	



Matador Resources, LLC.	Project Name:	Wool Head Pad D	
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#### FS14 - 7' E310047-06

Analyzed 10/09/23 10/09/23	Notes Batch: 2341003
	Batch: 2341003
10/09/23	
10/09/23	
10/09/23	
10/09/23	
10/09/23	
10/09/23	
	Batch: 2341003
10/09/23	
10/09/23	
	Batch: 2341001
10/09/23	
10/09/23	
10/09/23	
	Batch: 2341009
	10/09/23 10/09/23 10/09/23 10/09/23



Matador Resources, LLC.	Project Name:	Wool Head Pad D	
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Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

#### SW08 - 0-7' E310047-07

		E310047-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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	
Foluene	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		96.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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		77.5 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2341009
Chloride	253	20.0	1	10/09/23	10/09/23	



Chloride

# **Sample Data**

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	10/17/2023 3:26:31PM

#### SW09 - 0-15'

E310047-08						
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: 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		97.0 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.4 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: 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		66.6 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2341009

20.0

ND

10/09/23

10/09/23



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Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

## SW10 - 0-15'

		E310047-09				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
o,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		96.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2341003
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/09/23	10/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.1 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: 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		81.2 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2341009
Chloride	58.4	20.0	1	10/09/23	10/09/23	



Matador Resources, LLC.	Project Name:	Wool Head Pad D	
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Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

#### SW11 - 0-20'

		E310047-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	Ana	llyst: 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	Ana	lyst: 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	Ana	llyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	·



Matador Resour	ces, LLC.	Project Name:	Wool Head Pad D	
5400 LBJ Freev	vay, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 7524	40	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM

#### SW12 - 0-15'

		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	
o,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	An	alyst: 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	An	alyst: 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	An	alyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	<del></del>



Chloride

## **Sample Data**

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	10/17/2023 3:26:31PM

#### SW13 - 0-20'

		E310047-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: 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		96.1 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: 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	Analy	rst: 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		85.0 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: BA		Batch: 2341009

20.0

ND

10/09/23

10/09/23



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	10/17/2023 3:26:31PM

#### SW14 - 0-20'

		D				
Analyta	Dogult	Reporting Limit	Dilutio	m Duomono J	A malayra d	Notes
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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		94.7 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: 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	An	alyst: 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		82.8 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: BA		Batch: 2341009
Chloride	459	20.0	1	10/09/23	10/09/23	



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	10/17/2023 3:26:31PM

#### SW15 - 0-20'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: 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	Ana	lyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	
Anions by EPA 300.0/9056A Chloride			1	-	10/09/23	Batch, 2



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	10/17/2023 3:26:31PM

#### SW16 - 0-20'

		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: 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	Analys	st: 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	Analys	st: 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	Analys	st: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



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	10/17/2023 3:26:31PM

## SW17 - 0-7'

		E310047-16				
		Reporting				
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	alyst: 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		94.5 %	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.8 %	70-130	10/09/23	10/09/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: 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		86.6 %	50-200	10/09/23	10/09/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2341009
Chloride	ND	20.0	1	10/09/23	10/09/23	



## **Sample Data**

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	10/17/2023 3:26:31PM

#### SW18 - 0-15'

		E310047-17				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: 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	An	alyst: 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	An	alyst: 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	An	alyst: 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:
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	•
Dallas TX, 75240	Project Manager:	Ashley Giovengo	10/17/2023 3:26:31PM
	W.L.C.	EDA 9021D	

Dallas TX, 75240		Project Manager:		shley Gioveng	go			10/	17/2023 3:26:31PM
		Volatile O	rganics b	oy EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341003-BLK1)							Prepared: 10	0/09/23 Anal	yzed: 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	0/09/23 Anal	yzed: 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			
Foluene	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	0/09/23 Anal	yzed: 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	0/09/23 Anal	yzed: 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	



70-130

95.6

Surrogate: 4-Bromochlorobenzene-PID

# **QC Summary Data**

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

Dallas TX, 75240		10/17/2023 3:26:31PM								
	Non	halogenated	Organics l		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	
Blank (2341003-BLK1)							Prepared: 1	0/09/23 An	alyzed: 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: 1	0/09/23 An	alyzed: 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:	E310047-0	07	Prepared: 1	0/09/23 An	alyzed: 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:	E310047-0	07	Prepared: 1	0/09/23 An	alyzed: 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

Danas 1A, 73240		Project Manager	. As	mey Gloveng	30				10/17/2023 3.20.3111
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341001-BLK1)							Prepared: 1	0/09/23 A	analyzed: 10/09/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	49.2		50.0		98.5	50-200			
LCS (2341001-BS1)							Prepared: 1	0/09/23 A	analyzed: 10/09/23
Diesel Range Organics (C10-C28)	214	25.0	250		85.5	38-132			
urrogate: n-Nonane	42.9		50.0		85.9	50-200			
Matrix Spike (2341001-MS1)				Source:	E310047-0	08	Prepared: 1	0/09/23 A	analyzed: 10/09/23
Diesel Range Organics (C10-C28)	221	25.0	250	ND	88.6	38-132			
urrogate: n-Nonane	38.7		50.0		77.4	50-200			
Matrix Spike Dup (2341001-MSD1)				Source:	E310047-0	08	Prepared: 1	0/09/23 A	analyzed: 10/09/23
Diesel Range Organics (C10-C28)	218	25.0	250	ND	87.0	38-132	1.76	20	
urrogate: n-Nonane	38.9		50.0						



Matrix Spike (2341009-MS1)

Matrix Spike Dup (2341009-MSD1)

Chloride

Chloride

3970

4130

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

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

20

M4

## **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	W 23		Reported:					
Dallas TX, 75240		Project Manager:	A	shley Gioveng	go			0/17/2023 3:26:31PM		
		Anions	by EPA 3	300.0/9056 <i>E</i>	4				Analyst: BA	
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2341009-BLK1)							Prepared: 1	0/09/23 Aı	nalyzed: 10/09/23	
Chloride	ND	20.0								
LCS (2341009-BS1)							Prepared: 1	0/09/23 Aı	nalyzed: 10/09/23	
Chloride	251	20.0	250		101	90-110				

250

250

40.0

40.0

Source: E310047-01

Source: E310047-01

111

174

80-120

80-120

3.94

3700

3700

#### 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.



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	e, Zip: Carls	7,207,000,000,000,000,000,000,000,000,00	88220	7 (ESE/SES)	(337)319-8398		by (											
	575-988-005		av Linakini	Email:	clinton.talley@matadorr	esources.com	ORC										State	
	giovengo@e	nsolum.c	com				JRO/	21	00	0	300.0		ΣN	- 1	×	NM CC	UT AZ	TX
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9:52	10/5/2023	Soil	1 Jar	FS0	07 - 20'	1							х				1	
13:35	10/5/2023	Soil	1 Jar	FS0	08 - 20'	2							х					
13:38	10/5/2023	Soil	1 Jar	FS0	99 - 20'	3							х				***************************************	
13:40	10/5/2023	Soil	1 Jar	FS1	.0 - 20'	ч							х					
13:42	10/5/2023	Soil	1 Jar	FS1	.1 - 20'	5							х					
14:20	10/5/2023	Soil	1 Jar	FS1	14 - 7'	6							х		$\top$			
9:09	10/5/2023	Soil	1 Jar	SW0	08 - 0-7'	7							х					
10:10	10/5/2023	Soil	1 Jar	SW09	9 - 0-15'	8							х					
9:56	10/5/2023	Soil	1 Jar	SW10	0 - 0-15'	9					$\top$		х					
9:34	10/5/2023	Soil	1 Jar	SW11	1 - 0-15'	10							х					
Addition	al Instruction	ns: Plea	ase CC: c	ourton@ensolum.com, agid	ovengo@ensolum.com,	chamilton@e	nsolum	.com,	ehaf	t@en	solum	.com						
date or time	of collection is c	onsidered f		ty of this sample. I am aware that tar y be grounds for legal action.	mpering with or intentionally misl Sampled by:	The second										ved on ice the day than 6 °C on sub		oled or
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Project N	Manager: As	hley Giov	vengo		Address: on file		Lab WO	04	1	230	57.0001	1D X			XIII		
Address:	3122 Natio	nal Parks	Hwy		City, State, Zip:						sis and Metho	od					RCF
City, Stat	te, Zip: Carls	bad NM,	88220		Phone: (337)319-8398		þ								-		
	575-988-005				Email: clinton.talley@matado	rresources.con	88									State	
	giovengo@e	nsolum.d	com				NO/	21	00	0	0.00	Σ		¥	NM CO	UT AZ	TX
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Addition	al Instructio	ns: Plea	ase CC: c	burton@ensolu	m.com, agiovengo@ensolum.cor	n, chamilton@e	ensolum.	com,	ehaf	t@er	solum.com						
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enviroteche client expense. The report for the analysis of the above

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

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	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)					
			37			
	ne sample ID match the COC? ne number of samples per sampling site location matc	h the COC	Yes			
	amples dropped off by client or carrier?	in the coc	Yes Yes	Comion Courier		
	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes	Carrier: Courier		
	Il samples received within holding time?	ed analyses.	Yes			
5. WOZO W	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		100		Comment	ts/Resolution
	<u> Curn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C						
	sample cooler received?		Yes			
•	was cooler received in good condition?		Yes			
9. Was th	e 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			
	e sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes			
Sample (	Container_					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containe	ers collected?	Yes			
Field Lal	pel					
•	field sample labels filled out with the minimum infor	mation:				
S	ample ID?		Yes			
	ate/Time Collected?		Yes			
	ollectors name?		No			
	Preservation	10				
	the COC or field labels indicate the samples were pre	eserved?	No			
	ample(s) correctly preserved?	-4-1-9	NA			
	filteration required and/or requested for dissolved me	etais?	No			
	se Sample Matrix	_				
	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	zed?	NA			
Subcontr	act Laboratory					
	amples required to get sent to a subcontract laborator, a subcontract laboratory specified by the client and if		No NA	Subcontract Lab: na		
Client II	<u>nstruction</u>					

Date

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

Project In	formation							Chai	n of Custo	ody													Page 1	of	Received by OCD: 10/23/2023 1:49:23 PM
Project:	latador Prod Wool Head I	Pad D					tion: Matador	ill To Production Co	mpany	Lab	WO#	1	PER SE	se Or	Num	ber	, 11	) 2D	T/	All of the last	ndard	EPA CWA	Program SDWA		by OCD
Address: City, Stat	lanager: As 3122 Natio e, Zip: Carls 75-988-005	nal Parks bad NM,	Hwy			City, S	ess: on file State, Zip: e: (337)319-839 : clinton.talley@		urces.com		3 100 Ag ph				E-12 HOUSE (1996)	nd Met	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN					State	RCRA		: 10/23/2
Report d	giovengo@e ue by:	nsolum.c	1						Lab		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	s 6010	de 300.0		200		XT .		NM CO		Z TX		023 1:4
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9:56	10/5/2023	Soil	1 Jar				10 - 0-15'		8																
9:34	10/5/2023	Soil	1 Jar			SW	11 - 0- <del>15'</del> <b>Zo'</b>		10								)								
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date or time Relinquish	of collection is c	considered fr	raud and ma	y be grounds t	or legal ac	ction.	tampering with or int Sampled b eceived by: (Signat	у:	Date ,	-	Time			the second second					e 0 but l	ess than	n ice the day 6°C on subse				
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Note: Sam	rix: S - Soil, Sd - S ples are discard applicable only	ded 30 days	idge, A - Aqu s after resul	lts are report	ed unles	s other ar	rangements are mais COC. The liability	ade. Hazardous s	Container amples will	Type be ret	e: g - g	glass, to cli	p - po	oly/pl	lastic osed o	, ag - a	mber	glass, v expens	- VOA	A e repoi	rt for the a	nalysis o	the above		Pa



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	e, Zip: Carls	A CONTRACTOR OF THE PROPERTY AND	88220			Phone: (337)319-8398			by												
	575-988-005					Email: clinton.talley@matadorre	ources.co	m	ORO											State	
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Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe	r.	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8	Metals	Chloride 300.0		00000	0000	GDOC			Remarks	
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						with this COC. The liability of the laborat															



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Report to:
Ashley Giovengo







5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

Matador Resources, LLC.

Project Name: 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

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 reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

**Alexa Michaels** 

Sample Custody Officer Office: 505-632-1881

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Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

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:	Project Number: 23052-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	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.

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	10/17/2023 3:28:52PM

#### FS06 -20' E310049-01

		20100.5 01					
Analyte	Result	Reporting Limit	Dilu	tion	Prepared	Analyzed	Notes
					•	Allalyzed	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I			Batch: 2341004
Benzene	ND	0.0250	1	l	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	l	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	l	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	l	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: I	Y		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: I	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	l	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: I	ВА		Batch: 2341010
Chloride	416	20.0	1		10/09/23	10/09/23	



Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/17/2023 3:28:52PM

#### FS12 -07' E310049-02

		2010019 02				
Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	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	Α	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	A	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	A	Analyst: BA		Batch: 2341010
Chloride	2540	40.0	2	10/09/23	10/09/23	_

Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/17/2023 3:28:52PM

#### FS13 - 07' E310049-03

		2010017 00				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	Α	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	Α	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	Α	Analyst: BA		Batch: 2341010
Chloride	1410	20.0	1	10/09/23	10/09/23	_

Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/17/2023 3:28:52PM

#### FS15 - 07' E310049-04

		2010017 01					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:			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	<u> </u>

Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/17/2023 3:28:52PM

#### FS16 - 18' E310049-05

		2010017 00				
Analyte	Result	Reporting Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	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	A	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	A	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	A	analyst: BA		Batch: 2341010
Chloride	447	20.0	1	10/09/23	10/09/23	

# **Sample Data**

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	10/17/2023 3:28:52PM

### SW19 - 0-20'

		E310049-06					
		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg mg/kg Analyst: IY					Batch: 2341004
Benzene	ND	0.0250	1	1	10/09/23	10/09/23	
Ethylbenzene	ND	0.0250	1	1	10/09/23	10/09/23	
Toluene	ND	0.0250	1	1	10/09/23	10/09/23	
o-Xylene	ND	0.0250	1	1	10/09/23	10/09/23	
p,m-Xylene	ND	0.0500	1	1	10/09/23	10/09/23	
Total Xylenes	ND	0.0250	1	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	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	1	10/09/23	10/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	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	1	10/09/23	10/09/23	<del></del>



# **Sample Data**

Matador Resources, LLC.Project Name:Wool Head Pad D5400 LBJ Freeway, Suite 1500Project Number:23052-0001Reported:Dallas TX, 75240Project Manager:Ashley Giovengo10/17/2023 3:28:52PM

#### SW20 - 0-20'

#### E310049-07

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	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: l	IY		Batch: 2341004
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	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: l	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: l	BA		Batch: 2341010



# **QC Summary Data**

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

Dallas TX, 75240		Project Manage	r: A	shley Gioveng	go			10	/17/2023 3:28:52P
	V	olatile Organ	ic Compo	unds by El	PA 82601	В			Analyst: IY
Analyte		Reporting	Spike	Source		Rec		RPD	
,	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341004-BLK1)							Prepared: 1	0/09/23 Ana	lyzed: 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: 1	0/09/23 Ana	lyzed: 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			
Foluene	2.25	0.0250	2.50		90.0	70-130			
o-Xylene	2.25	0.0250	2.50		89.9	70-130			
o,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: 1	0/09/23 Ana	lyzed: 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			
o,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: 1	0/09/23 Ana	lyzed: 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			

0.500

109

70-130

0.543

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

# **QC Summary Data**

Wool Head Pad D Matador Resources, LLC. Project Name: Reported: 5400 LBJ Freeway, Suite 1500 Project Number: 23052-0001

Dallas TX, 75240		Project Manage	r: As	shley Gioveng	go				10/17/2023 3:28:52PM
	Non	halogenated	Organics	by EPA 801	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341004-BLK1)							Prepared: 1	0/09/23	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: 1	0/09/23	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: 1	0/09/23	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: 1	0/09/23	Analyzed: 10/09/23
Gasoline Range Organics (C6-C10)	53.6	20.0	50.0	ND	107	70-130	0.281	20	

0.500

0.500

0.500

111

95.0

103

70-130

70-130

70-130

0.555

0.475

0.515



# **QC Summary Data**

Matador Resources, LLC.Project Name:Wool Head Pad DReported:5400 LBJ Freeway, Suite 1500Project Number:23052-0001Dallas TX, 75240Project Manager:Ashley Giovengo10/17/20233:28:52PM

Bullus 171, 732 10									
	Nonha	logenated Or		Analyst: KM					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341002-BLK1)							Prepared: 1	0/09/23 Ana	yzed: 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: 1	0/09/23 Ana	yzed: 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:	E310048-0	01	Prepared: 1	0/09/23 Ana	yzed: 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:	E310048-0	01	Prepared: 1	0/09/23 Ana	yzed: 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			

Matrix Spike (2341010-MS1)

Matrix Spike Dup (2341010-MSD1)

Chloride

Chloride

654

681

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

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

20

### **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager	: 2	Vool Head Pad 3052-0001 Ashley Gioveng				<b>Reported:</b> 0/17/2023 3:28:52PM	
		Analyst: BA							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2341010-BLK1)						]	Prepared: 1	0/09/23 Ar	nalyzed: 10/09/23
Chloride	ND	20.0							
LCS (2341010-BS1)						1	Prepared: 1	0/09/23 Ar	nalyzed: 10/09/23
Chloride	257	20.0	250		103	90-110			

250

250

20.0

20.0

Source: E310049-01

Source: E310049-01

95.3

106

80-120

80-120

3.93

416

416

#### 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.



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Client: Matador Production Company. Bill To							128/12		Lab	Use	Only	У				TA	EPA P	rogram	
Project:		ead Pad D			Attention: Matador Production	n Company	Lab	WO#		J	ob N	umb	er	1D	2D	3D	Standard	CWA	SDWA
Project	Manager: As	shley Giov	rengo		Address: on file		F	WO# 3 00	49	1	230	52	1000	X					
. Address	: 3122 Natio	nal Parks	Hwy		City, State, Zip:					_	-		Metho						RCRA
	te, Zip: Carl				Phone: (337) 319-8398			þ		T				T					
The state of the s	575-988-005				Email: clinton.talley@matado	rresources.co	1	ORO										State	
Email: a	agiovengo@e	ensolum.c	com		m			0/0	4			0.		Σ			NM CO	UT AZ	TX
Report of	due by:						0/0	NO/OR	802	2200	010	300				¥	×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8021	VUC BY 8250	Metals 6010	Chloride 300.0		BGDOC		GDOC		Remarks	
8:55	10/6/2023	S	1 Jar		FS06 - 20'	1								Х					
9:15	10/6/2023	S	1 Jar		FS12-07 <sup>1</sup>	2								х					
9:17	10/6/2023	S	1 Jar		FS13-07'									х					
10:20	10/6/2023	S	1 Jar		FS15-07'									х					
10:42	10/6/2023	S	1 Jar		FS16-18'									Х					
12:27	10/6/2023	S	1 Jar		SW19 - 0-15'	6								х					
13:56	10/6/2023	S	1 Jar		SW20 - 0-15'	$\pi$								Х					
		d2"		H.															
Addition	al Instruction	ns: Plea	se CC: cl	ourton@enso	olum.com, agiovengo@ensolum.com	, chamilton@e	enso	lum.cc	om, el	naft	@en	solu	m.com	(Pre	serve	d on	ice)		
				ty of this sample.  y be grounds for I	I am aware that tampering with or intentionally m	islabelling the samp	ole loca	ation,									eceived on ice the da less than 6 °C on sub		
Relinguishe	ed by: Signatur ed by: (Signatur	2	Date	6-23 Time	Received by: (Signature)	Date Date	13	Time	16		Rece	ived	on ice:		Lab U	Ise Or N	nly		
Wich	ed by: (Signatur	uk	10-		730 Jan Fort	lo(6	23	A CONTRACTOR OF THE PARTY OF TH	:30		<u>T1</u>			<u>T2</u>			<u>T3</u>		
San	Lovas	te	10	16/23 11	illem Man 200	10/8/2		10	:45				p °C						
	rix: <b>S</b> - Soil, <b>Sd</b> - So					Containe	er Typ	oe: <b>g -</b> g	lass, p	- p	oly/pl	lastic,	, ag - am	nber g	glass,	v - VO	Α		
					unless other arrangements are made. Hazar											se. Th	ne report for the	analysis of	the above



envirotec

envirotech Inc.

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

### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	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)					
			37			
	he sample ID match the COC? he number of samples per sampling site location matc	h the COC	Yes			
	amples dropped off by client or carrier?	n ane coc	Yes Yes	Comion Courier		
	e COC complete, i.e., signatures, dates/times, requesti	ed analyses?	Yes	Carrier: <u>Courier</u>		
	ill samples received within holding time?	ea analyses.	Yes			
31 W0200	Note: Analysis, such as pH which should be conducted in ti.e, 15 minute hold time, are not included in this disucssion		103		Comment	s/Resolution
	<u> Furn Around Time (TAT)</u>					
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (						
	sample cooler received?		Yes			
8. If yes,	was cooler received in good condition?		Yes			
9. Was th	e 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			
	ne sample received on ice? If yes, the recorded temp is 4°C, i.  Note: Thermal preservation is not required, if samples are minutes of sampling  visible ice, record the temperature. Actual sample to	received w/i 15	Yes			
Sample (	<u>Container</u>					
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample containe	ers collected?	Yes			
Field La	bel					
	field sample labels filled out with the minimum infor-	mation:				
S	ample ID?		Yes			
	Pate/Time Collected?		Yes			
	Collectors name?		Yes			
	Preservation		2.7			
	the COC or field labels indicate the samples were pre	served?	No			
	ample(s) correctly preserved?	.4-1-9	NA			
	filteration required and/or requested for dissolved me	etais?	No			
	ase Sample Matrix	_				
	the sample have more than one phase, i.e., multiphase		No			
27. If yes	, does the COC specify which phase(s) is to be analyz	zed?	NA			
Subcont	ract Laboratory					
	amples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if s		No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					

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Date

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

Received by OCD: 10/23/2023 1:49:23 PM

Client: Matador Production Company.					THE STATE OF THE S	Bill To		Time		Lah	n I Is	e On	lv	STATE OF		TAT EPA P						ogram
Project:		ead Pad D				Attention: Matador Production Co	mnany	Lah	WO#	Commence of the Commence of th	PERCHASING	I dol	NAME AND POST OF	her	1	D 2	DI			ndard	CWA	SDWA
Project I	Manager: As					Address: on file	, mperty	F	3/01	149				a								
	3122 Natio					City, State, Zip:		1						nd Met								RCRA
	te, Zip: Carls					Phone: (337) 319-8398			à					T		T						R SHE
Phone:	575-988-005	55				Email: clinton.talley@matadorres	ources.co		RO												State	
Email: a	giovengo@e	ensolum.d	com			m			0/01	-			0			NM		_		NM CO	UT AZ	TX
Report d	ue by:								J/DF	8021	8260	010	300			and the		¥		×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Numbe		TPH GRO/DRO/ORO by 8015	втех бу	VOC by	Metals 6010	Chloride 300.0			BGDOC		GDOC			Remarks	
8:55	10/6/2023	S	1 Jar		1									х				hand	ed s	ample		
9:15	10/6/2023	S.	1 Jar		2									х				name	SDO	r		
9:17	10/6/2023	S	1 Jar		FS13-07'											х				CBU	Har	
10:20	10/6/2023	S	1 Jar		FS15-07'											х				10/1	7/23	am
10:42	10/6/2023	S	1 Jar			FS16-18'	5									х						
12:27	10/6/2023	S	1 Jar			SW19 - 0- <del>15'</del> 20	6									х						
13:56	10/6/2023	S	1 Jar			SW20 - 0- <del>15'</del> <b>ZO'</b>	7									х						
																110						
Addition	al Instructio	ns: Plea	se CC: cb	urton@enso	lum.	om, agiovengo@ensolum.com, ch	amilton@	ensc	olum.c	om, e	ehaf	t@ei	nsoli	ım.co	m (P	rese	rvec	on	ice)			
, (field samp date or time	ler), attest to the of collection is c	e validity and onsidered fr	d authenticit aud and may	y of this sample. I	am av	rare that tampering with or intentionally mislab ion. Sampled by: Cole Burt		ple loc	cation,		Thinks V									on ice the day on 6°C on sub		oled or
Cal		2	Date [0 -	6-23 Time	:1	Received by: (Signature)	Date 10-6	13	Time 16	16		Reco	eive	d on ic	e:		b Us )' N	e Or	nly			
Mych	d by: (Signatur	uk	Date 10-	627 Time	130	Redeived by: (Signature)	Date 10/6	1	Time	1:30		T1				·				T3		
	Lova Lova	1	Date	16/23 Time	llp	Received by: (Signature)	10/8/2		Time	:45		AVG		np °C_								
ample Matri	ix: S - Soil, Sd - Se	olid, Sg - Slu	dge, A - Aque	ous, O - Other			Contain	er Ty	pe:g-	glass,	p - p	ooly/p	olasti	c, ag -	ambe	r gla	55, V	- VO.	Α			and the same
lote: Samp	les are discard	ed 30 days	after resul	s are reported u	inless	other arrangements are made. Hazardou	samples w	II be i	returne	d to cli	ient e	or disp	osed	of at th	ne clie	nt ex	pens	e. Th	ne rep	ort 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 environ en analysis of the above page 154 of 157



**APPENDIX F** 

**NMOCD Notifications** 

From: Ashley Giovengo

To: Enviro, OCD, EMNRD; spills@slo.state.nm.us

Cc: <u>clinton.talley@matadorresources.com</u>; <u>Cole Burton</u>; <u>Chad Hamilton</u>; <u>Ethan Haft</u>

Subject: 48-hour Confirmation Sampling Notification Email - Wool Head Pad D - Incident Number nAPP2325965529

**Date:** Monday, October 2, 2023 10:29:27 AM

Attachments: <u>image001.png</u>

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,



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

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

#### CONDITIONS

Created By		Condition Date
nvelez	None	2/6/2024