ENSOLUM

July 5, 2023

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

Re: Deferral Request
Wool Head Pad D
Incident Number nAPP2312244897
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Deferral Request* to document assessment and soil sampling activities at the Wool Head Pad D (Site), located in Unit L, Section 20, Township 21 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Deferral Request*, describing Site assessment and delineation activities that have occurred and requesting deferral of final remediation for Incident Number nAPP2312244897 until the Site is reconstructed, and/or the well pad is abandoned.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Lea County, New Mexico (32.45801° N, 103.602108°W) and is associated with oil and gas exploration and production operations on Private Land.

On May 1, 2023, a tank overflowed, resulting in the release of approximately 320 barrels (bbls) of produced water into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 320 bbls of released produced water were recovered from within the lined containment. A 48-hour advance notice of a liner inspection was provided via email to the New Mexico Oil Conservation Division (NMOCD) District II office. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery. Upon inspection, the liner was determined to be insufficient. Matador reported the release to the NMOCD via email on May 5, 2023, and submitted a Release Notification Form C-141 (Form C-141) on May 9, 2023 (Appendix A). The release was assigned Incident Number nAPP2312244897.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized for the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The New Mexico Office of the State Engineer (NMOSE) indicates the nearest depth to groundwater measurement is 572 feet below ground surface (bgs) and the water well, NMOSE file number CP 01349 POD1, is located approximately 2.13 miles Southeast of the Site as shown in Figure 1; The well log and record is provided in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 0.95 miles northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

From May 23, 2023, through June 1, 2023, Ensolum personnel visited the Site to evaluate the release extent and conduct Site assessment activities. Soil samples SS01 through SS06 were collected at the ground surface outside of the lined containment to laterally define the release. Seven boreholes (BH01 through BH07) were advanced via hand auger near the location of the tears in the liner to assess the vertical extent of potentially impacted soil. Soil from the boreholes were field screened for volatile organic compounds (VOCs) utilizing a calibrated PetroFLAG® soil analyzer system and chloride using Mohr method titration and Hach® chloride QuanTab® test strips. Field screening results and observations from the boreholes were documented on lithologic/soil sampling logs, which are included as Appendix C. The boreholes were backfilled with the soil removed and Ensolum repaired the tears in the liner. The delineation soil sample locations are depicted on Figure 2. Photographic documentation is included in Appendix D.

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 Analytical Laboratory (Envirotech) in, Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-ORO following EPA Method 8015M/D; and chloride following EPA Method 300.0.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the lateral delineation soil samples collected at the surface to 0.5 feet bgs indicated concentrations of TPH exceeded the Site Closure Criteria. Soil samples SS02, SS03 SS05A, and SS06B were resampled, and soil samples SS02A, SS03A, SS05B, and SS06D were below the applicable Site Closure Criteria and successfully defined the lateral extent of impacted soil beneath the containment liner.

Laboratory analytical results for the delineation soil samples collected from boreholes BH01 through BH07 indicated COC concentrations, specifically chloride and TPH, exceeded the Site Closure Criteria at depths ranging from the pad surface to 10 feet bgs, directly beneath the tears in the liner. Vertical delineation to the strictest Closure Criteria was achieved in six out of the seven boreholes. Ensolum personnel hit refusal at 5 feet bgs in borehole location BH05. The laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included in Appendix E. Email correspondence with NMOCD is provided in Appendix F.

DEFERRAL REQUEST

Matador is requesting deferral of final remediation due to the presence of active production equipment and surface pipelines within the lined containment. The impacted soil is limited to the area immediately beneath the lined containment and active production equipment, where remediation would require a major facility deconstruction.

The impacted soil remaining in place beneath the liner is delineated vertically by delineation soil samples BH01 through BH07 to a depth of 10 feet bgs and laterally by delineation soil samples SS01C, SS02A, SS03A, SS04, SS05B and SS06D. Approximately 78 cubic yards of chloride and TPH impacted soil remains in place beneath the liner based on the delineation soil samples listed above were compliant with the Closure Criteria.

Matador does not believe deferment will result in imminent risk to human health, the environment, or groundwater. The release was contained laterally by the lined containment and the impacted soil remaining in place is limited to the area immediately beneath the liner. The liner has been repaired by Ensolum and will restrict future vertical migration of residual impacts.

Based on the presence of active production equipment within the release area and the complete lateral and vertical delineation of impacted soil remaining in place, Matador requests deferral of final remediation for Incident Number nAPP2312244897 until final reclamation of the well pad or major construction, whichever comes first.

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

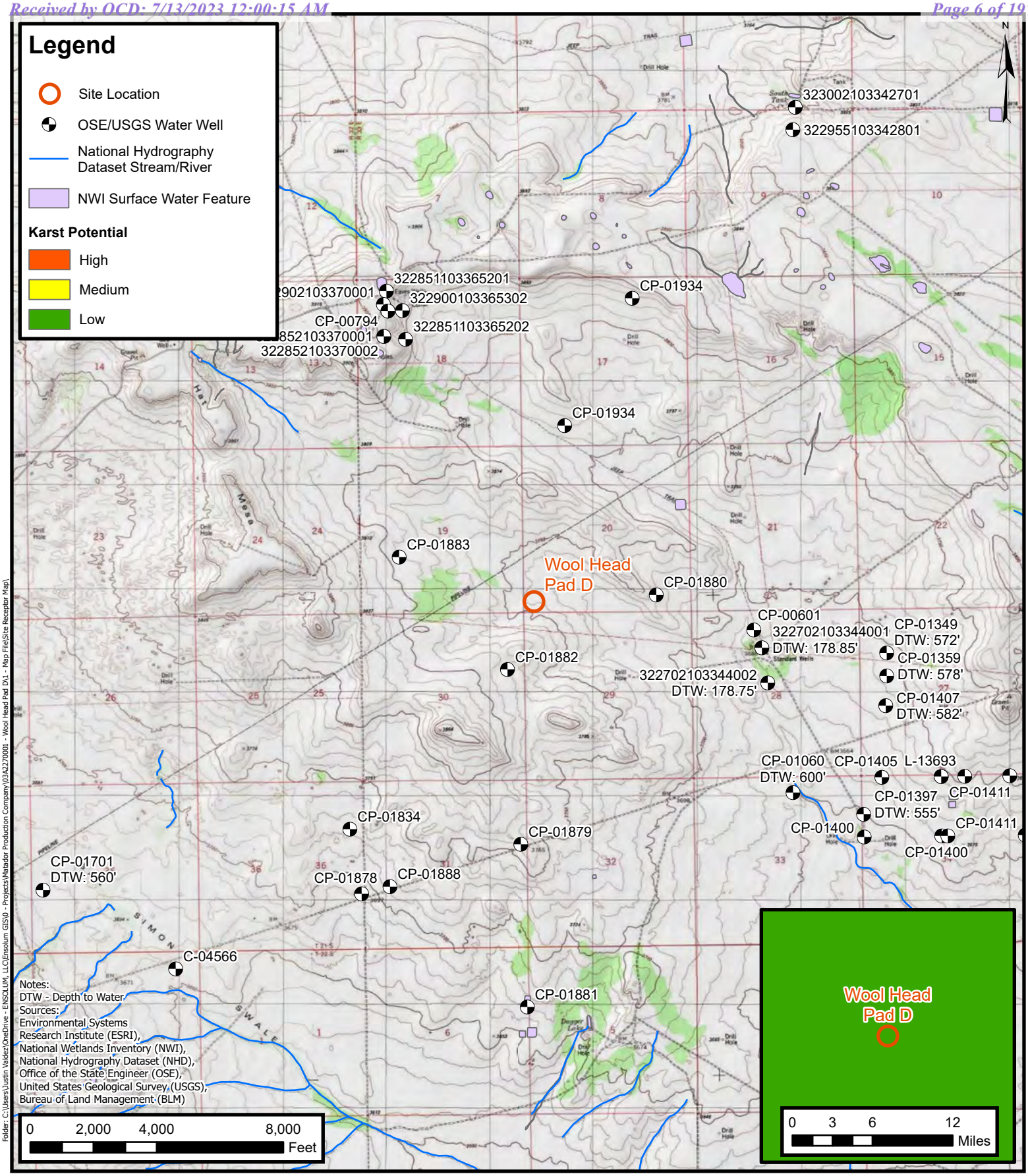
cc: Clinton Talley, Matador

Appendices:

Figure 1 Site Receptor Map
Figure 2 Delineation Soil Sample Locations
Figure 3 Areas of Requested Deferral

ENSOLUM

FIGURES



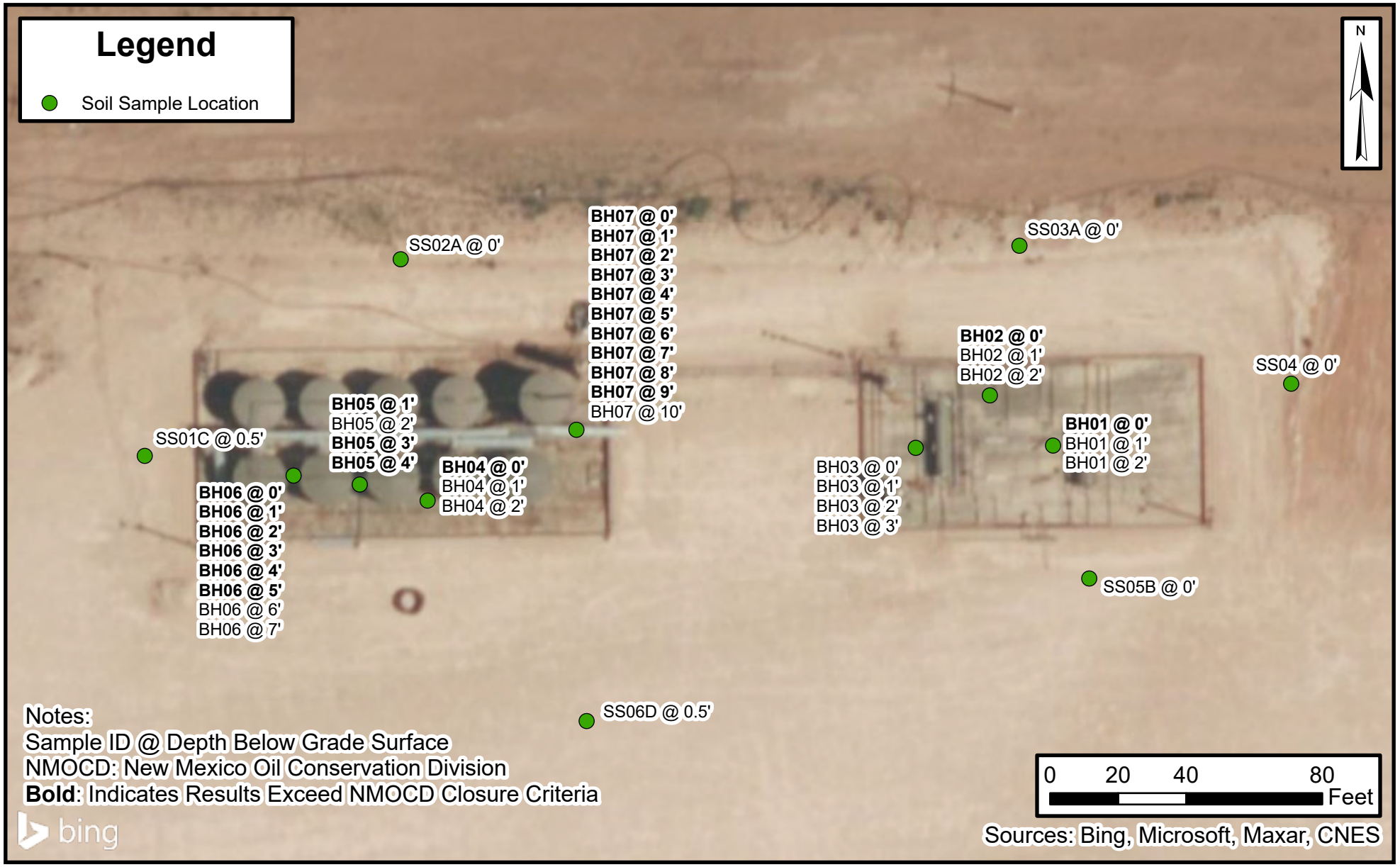
Folder: C:\Users\Justin Valdez\OneDrive - ENSOLUM, LLC\Ensolum GIS\0 - Projects\Matador Production Company\03A2270001 - Wool Head Pad D\1 - Map File\Site Receptor Map\

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Matador Production Company
Wool Head Pad D
Incident Number: nAPP2312244897
Unit M, Section 20, T 21S, R 33E
Lea County, New Mexico

FIGURE 1



ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Delineation Soil Samples

Wool Head Pad D
Matador Production Company

Incident Number: nAPP2312244897
Unit L, Sec 20, T21S R33E
Lea County, New Mexico

FIGURE
2

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Areas of Requested Deferral

Wool Head Pad D
Matador Production Company

Incident Number: nAPP2312244897
Unit L, Sec 20, T21S R33E
Lea County, New Mexico

FIGURE
3

ENSOLUM

TABLES

ENSOLUM

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Wool Head Pad D
Matador Production Company
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**100**	**100**	**600**
Delineation Soil Samples										
SS01C	5/31/2023	0.5	<0.0250	<0.0500	<20.0	26.9	<50.0	26.9	26.9	319
SS02	5/31/2023	0	<0.0250	<0.0500	<20.0	65.6	65.5	**131.1**	**131.1**	416
SS02A	6/12/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	23
SS03	5/31/2023	0	<0.0250	<0.0500	<20.0	89.2	89.9	**179.1**	**179.1**	32.1
SS03A	6/12/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	65
SS04	5/31/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	456
SS05A	5/31/2023	0	<0.0250	<0.0500	<20.0	**192**	**137**	**329**	**329**	501
SS05B	6/12/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.2
SS06B	5/31/2023	0.5	<0.0250	<0.0500	<20.0	61.8	60.9	61.8	**122.7**	439
SS06C	6/22/2023	0.5	<0.0250	<0.0500	<20.0	81	88.5	81	**169.5**	269
SS06D	6/23/2023	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	187
BH01	5/30/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**879**
BH01	5/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	69.6
BH01	5/30/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	62.1
BH02	5/30/2023	0	0.174	1.065	27.1	15,300	5,980	**21,280**	**21,307.1**	**1,570**
BH02	5/30/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	93
BH02	5/30/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	148
BH03	5/31/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	124
BH03	5/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	114
BH03	5/31/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	112
BH03	6/1/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	281
BH04	5/31/2023	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**7,520**
BH04	5/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	42.6
BH04	5/31/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	251

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
"<": Laboratory Analytical result is less than reporting limit
*Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.*

ENSOLUM

TABLE 1 CON'T
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 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**100**	**100**	**600**
Delineation Soil Samples										
BH05	5/31/2023	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,560**
BH05	5/31/2023	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	229
BH05	5/31/2023	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**10,500**
BH05	6/12/2023	4	<0.0250	<0.0500	<20.0	29.7	<50.0	29.7	29.7	**1,410**
BH05	6/12/2023	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**933**
BH06	5/31/2023	0	0.183	1.663	33.7	7,640	2,560	**10,200**	**10,233.70**	**5,470**
BH06	5/31/2023	1	<0.0250	<0.0500	<20.0	78	<50.0	78	78	**2,530**
BH06	5/31/2023	2	<0.0250	<0.0500	<20.0	43.3	<50.0	43.3	43.3	**4,820**
BH06	5/31/2023	3	<0.0250	<0.0500	<20.0	49.7	<50.0	49.7	49.7	**4,810**
BH06	5/31/2023	4	<0.0250	<0.0500	<20.0	74.1	52.9	**127**	**127**	**862**
BH06	5/31/2023	5	<0.0250	<0.0500	<20.0	409	197	**606**	**606**	**999**
BH06	6/12/2023	6	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	208
BH06	6/12/2023	7	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	61
BH06	6/12/2023	8	<0.0250	<0.0500	<20.0	35	<50.0	35	35	37.9
BH07	5/31/2023	0	0.113	1.9523	28.8	3,450	1,280	**4,730**	**4,758.80**	**4,680**
BH07	5/31/2023	1	<0.0250	<0.0500	<20.0	31.8	<50.0	31.8	31.8	**1,700**
BH07	5/31/2023	2	<0.0250	<0.0500	<20.0	51.1	<50.0	51.1	51.1	**1,150**
BH07	5/31/2023	3	<0.0250	<0.0500	<20.0	86.7	55.8	**142.5**	**142.5**	**874**
BH07	5/31/2023	4	<0.0250	<0.0500	<20.0	43.4	<50.0	43.4	43.4	**887**
BH07	5/31/2023	5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	**1,080**
BH07	5/31/2023	6	<0.0250	<0.0500	<20.0	1270	498	**1,768**	**1,768**	**992**
BH07	5/31/2023	7	<0.0250	<0.0500	<20.0	69.8	66.4	**1,36.2**	**136.2**	**671**
BH07	5/31/2023	8	<0.0250	<0.0500	<20.0	148	87.1	**235.1**	**235.1**	**778**
BH07	5/31/2023	9	<0.0250	<0.0500	<20.0	79.9	52.7	**132.6**	**132.6**	378
BH07	5/31/2023	9.5	<0.0250	<0.0500	<20.0	157	84.9	**157**	**241.9**	545
BH07	6/12/2023	10	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
"<": Laboratory Analytical result is less than reporting limit
*Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.*

ENSOLUM

APPENDIX A

C-141 Form

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	nAPP2312244897
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Matador Production Company	OGRID 228937
Contact Name Clint Talley	Contact Telephone (337) 319-8398
Contact email clinton.talley@matadorresources.com	Incident # *(assigned by OCD) nAPP2312244897*
Contact mailing address 5400 Lyndon B Johnson Fwy, Dallas, Texas 75240	

Location of Release Source

Latitude 32.45801 Longitude -103.602108
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Wool Head Pad D	Site Type Oil Well
Date Release Discovered 05/01/2023	API# *(if applicable)*

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

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 320 bbls	Volume Recovered (bbls) 320 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:

Tank overflow inside lined secondary containment. All fluid was recovered by means of vac truck.

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2312244897
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Volume exceeded 25 bbls.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given to NMOCD on 05/02/2023 via website.	

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Clint Talley

Title: EHS Supervisor

Signature: Clint Talley

Date: 05/09/2023

email: Clinton.talley@matadorresources.com

Telephone: 337-319-8398

OCD Only

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2312244897
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?	178 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
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?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** 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.***

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2312244897
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: Clinton Talley Title: EHS Supervisor

Signature: Clint Talley Date: 06/21/2023

email: Clintontalley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells Date: 7/13/2023

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2312244897
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Clinton Talley Title: EHS Supervisor

Signature: Clint Talley Date: 06/21/2023

email: Clinton.talley@matadorresources.com Telephone: 337-319-8398

OCD Only

Received by: Shelly Wells Date: 7/13/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Nelson Velez Date: 10/03/2023

Deferral is approved. Remediation Due date will be left open until the site has a major facility deconstruction.

ENSOLUM

APPENDIX B

Referenced Well Records

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	CP 01349 POD1	2	3	1	27	21S	33E	634782	3591569

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

Driller License: 421 **Driller Company:** GLENN'S WATER WELL SERVICE
Driller Name: GLENN, CLARK A."CORKY"

Drill Start Date:	07/12/2014	**Drill Finish Date:**	07/18/2014	**Plug Date:**	
Log File Date:	08/04/2014	**PCW Rcv Date:**	04/27/2017	**Source:**	Artesian
Pump Type:	SUBMER	**Pipe Discharge Size:**	3	**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	1188 feet	**Depth Water:**	572 feet

Water Bearing Stratifications:	Top	Bottom	Description
	990	1188	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	721	1188

Meter Number:	18275	**Meter Make:**	SEAMETRICS
Meter Serial Number:	11 210 381	**Meter Multiplier:**	1.0000
Number of Dials:	8	**Meter Type:**	Diversion
Unit of Measure:	Barrels 42 gal.	**Return Flow Percent:**	
Usage Multiplier:		**Reading Frequency:**	Monthly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
06/02/2015	2015	616318	A	ap	beginning water report	0	
06/27/2015	2015	654758	A	ap		49.547	
07/31/2015	2015	654758	A	ap		0	
08/31/2015	2015	658147	A	ap		4.368	
09/30/2015	2015	658147	A	ap		0	
10/31/2015	2015	658147	A	ap		0	
11/30/2015	2015	658147	A	ap		0	
04/01/2016	2016	0	A	ap	meter was reset	0	
04/30/2016	2016	56	A	ap		0.072	
06/30/2016	2016	45448	A	ap		58.507	
07/27/2016	2016	93651	A	ap		62.130	
08/04/2016	2016	0	A	ap		0	
08/04/2016	2016	93651	A	ap	replacing with new meter	0	
09/01/2016	2016	59651	A	ap		768.861	
09/30/2016	2016	59685	A	ap		0.438	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
10/31/2016	2016	59685	A	ap		0	
11/29/2016	2016	123327	A	ap		820.303	
12/31/2016	2016	202400	A	ap		1019.198	
02/01/2017	2017	222525	A	ap		259.398	
02/27/2017	2017	0	A	ap	reset meter again second time	0	
02/27/2017	2017	227465	A	ap		63.673	
03/01/2017	2017	4377	A	ap		56.417	
03/31/2017	2017	63670	A	ap		764.247	
05/01/2017	2017	110035	A	ap		597.614	
05/31/2017	2017	121714	A	ap		150.534	
07/31/2017	2017	179828	A	ap		749.050	
10/31/2017	2017	212568	A	ap		421.997	
11/30/2017	2017	212568	A	ap		0	
11/30/2017	2017	0	A	ap	new meter	0	
12/30/2017	2017	381088	A	ap		4911.968	
01/30/2018	2018	437540	A	ap		727.628	
02/28/2018	2018	489981	A	ap		675.929	
03/30/2018	2018	547614	A	ap		742.851	
04/30/2018	2018	599646	A	ap		670.657	
06/01/2018	2018	653059	A	ap		688.458	
06/29/2018	2018	705152	A	ap		671.444	
07/31/2018	2018	740396	A	ap		454.271	
08/30/2018	2018	797263	A	ap		732.977	
09/30/2018	2018	846832	A	ap		638.911	
11/30/2018	2018	954599	A	ap		1389.044	
01/02/2019	2018	1007303	A	RPT		6.793	
02/01/2019	2019	1020346	A	RPT		1.681	
08/01/2019	2019	1424822	A	RPT		52.134	
09/01/2019	2019	1479315	A	RPT		7.024	
09/30/2019	2019	1532079	A	RPT		6.801	
10/31/2019	2019	1594691	A	RPT		8.070	
11/30/2019	2019	1649180	A	RPT		7.023	
12/31/2019	2019	1680307	A	RPT		4.012	
02/01/2020	2020	1725618	A	RPT		5.840	
03/01/2020	2020	1769757	A	RPT		5.689	
04/01/2020	2020	1795050	A	RPT		3.260	
05/01/2020	2020	1795050	A	RPT		0	
06/01/2020	2020	1827737	A	RPT		4.213	
08/01/2020	2020	1890759	A	RPT		8.123	
09/01/2020	2020	1911876	A	RPT		2.722	
10/01/2020	2020	1921973	A	RPT		1.301	

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
10/31/2020	2020	1921973	A	WEB		0	X
11/30/2020	2020	1936489	A	WEB		1.871	X
12/31/2020	2020	1985989	A	WEB		6.380	X
01/31/2021	2021	1998414	A	ad		1.601	
02/28/2021	2021	2034331	A	ad		4.629	
03/03/2021	2021	2073034	A	ad		4.989	
04/30/2021	2021	2131550	A	ad		7.542	
05/31/2021	2021	2193675	A	ad		8.007	
06/03/2021	2021	2231051	A	ad		4.818	
07/31/2021	2021	2235097	A	ad		0.522	
08/31/2021	2021	2256278	A	ad		2.730	
09/30/2021	2021	2278765	A	ad		2.898	
10/31/2021	2021	2341766	A	ad		8.120	
11/30/2021	2021	2385855	A	ad		5.683	
01/01/2022	2022	3927	A	ad		0	
01/01/2022	2022	2419150	A	ad		4.292	
01/31/2022	2022	20696	A	ad		2.161	
02/28/2022	2022	51248	A	ad		3.938	
03/31/2022	2022	71830	A	ad		2.653	
04/30/2022	2022	126027	A	ad		6.986	
06/01/2022	2022	146374	A	ad		2.623	
07/01/2022	2022	168857	A	ad		2.898	
08/01/2022	2022	168870	A	ad		0.002	
09/01/2022	2022	168870	A	ad		0	
10/01/2022	2022	168984	A	ad		0.015	
11/01/2022	2022	206242	A	WEB		4.802	X
12/01/2022	2022	206242	A	WEB		0	X
01/01/2023	2022	304824	A	WEB		12.707	X
02/01/2023	2023	355253	A	WEB		6.500	X
03/01/2023	2023	418392	A	WEB		8.138	X
04/01/2023	2023	446952	A	WEB		3.681	X

**YTD Meter Amounts:	Year	Amount
	2015	53.915
	2016	2729.509
	2017	7974.898
	2018	7398.963
	2019	86.745
	2020	39.399
	2021	51.539
	2022	43.077
	2023	18.319

ENSOLUM

APPENDIX C

Lithologic Soil Sampling Logs

ENSOLUM

	Sample Name: BH01	Date: 5/30/23
	Site Name: Wool Head Pad D	
	Incident Number: nAPP2312244897	
	Job Number: 03A2270001	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Cole Burton	Method: Hand Auger
Coordinates: 32.45801, -103.602108	Hole Diameter: 3"	Total Depth: 2'

Comments: Field screening conducted with Chloride Titration. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M				BH01	0	0	CCHC	0 - 1' Caliche, Medium brown, Medium grade, Moist, Light staining
M				BH01	1	1	SP-SM	1 -2' Sand, Dark brown, Medium grade, Red, Moist, Noncohesive
M	400			BH01	2	2	SP-SM	0 -2' Sand W/ trace silt, Fine grade, Light brown

Max Depth 2'

ENSOLUM	Sample Name: BH02	Date: 5/30/23
	Site Name: Wool Head Pad D	
	Incident Number: nAPP2312244897	
	Job Number: 03A2270001	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Cole Burton	Method: Hand Auger
Coordinates: 32.45801, -103.602108	Hole Diameter: 3"	Total Depth: 2'

Comments: Field screening conducted with Chloride Titration. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M				BH02	0	0	CCHC	0 - 1' Caliche, Medium brown, Medium grade, Moist, Light staining
M				BH02	1	1	SP-SM	1 - 2' Sand, Dark brown, Medium grade, Red, Moist, Noncohesive
M	400			BH02	2	2	SP-SM	0 - 2' Sand W/ trace silt, Fine grade, Light brown

Max Depth 2'

ENSOLUM

	Sample Name: BH03	Date: 6/1/23
	Site Name: Wool Head Pad D	
	Incident Number: nAPP2312244897	
	Job Number: 03A2270001	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Cole Burton	Method: Hand Auger
Coordinates: 32.45801, -103.602108	Hole Diameter: 3"	Total Depth: 6'

Comments: Field screening conducted with Chloride Titration and PID for chloride and vapor, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M				BH03	0	0	CCHC	0 - 1' Caliche, Medium brown, Medium grade, Moist, Light staining
M				BH03	1	1	SP-SM	1 -2' Sand, Dark brown, Medium grade, Red, Moist, Noncohesive
M	2000	2.8		BH03	2	2	SP-SM	2 -3' Sand W/ trace silt, Fine grade, Dark brown
M				BH03	3	3	SP-SM	3 -4' Sand W/ trace silt, Fine grade, Dark brown
M				BH03	4	4	SP-SM	4 -5' Sand W/ trace silt, Fine grade, Dark brown
M				BH03	5	5	SP-SM	5 -6' Sand W/ trace silt, Fine grade, Dark brown
M				BH03	6	6	SP-SM	6 -7' Sand W/ trace silt, Fine grade, Dark brown

Max Depth 6'

ENSOLUM

	Sample Name: BH04	Date: 5/31/23
	Site Name: Wool Head Pad D	
	Incident Number: nAPP2312244897	
	Job Number: 03A2270001	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Cole Burton	Method: Hand Auger
Coordinates: 32.45801, -103.602108	Hole Diameter: 3"	Total Depth: 2'

Comments: Field screening conducted with Chloride Titration and PID for chloride and vapor, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M				BH04	0	0	CCHC	0 - 1' Caliche, Medium brown, Medium grade, Moist, Light staining
M				BH04	1	1	SP-SM	1 -2' Sand, Dark brown, Medium grade, Red, Moist, Noncohesive
M	1300	1.3		BH04	2	2	SP-SM	0 -2' Sand W/ trace silt, Fine grade, Light brown

Max Depth 2'

ENSOLUM

	Sample Name: BH05	Date: 5/31/23
	Site Name: Wool Head Pad D	
	Incident Number: nAPP2312244897	
	Job Number: 03A2270001	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Cole Burton	Method: Hand Auger
Coordinates: 32.45801, -103.602108	Hole Diameter: 3"	Total Depth: 5 ft bgs

Comments: Field screening conducted with Chloride Titration and PID for chloride and vapor, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M				BH05	0	0	CCHC	0 - 1' Caliche, Medium brown, Medium grade, Moist, Light staining
M				BH05	1	1	SP-SM	1 -2' Sand, Dark brown, Medium grade, Red, Moist, Noncohesive
M	500	1		BH05	2	2	SP-SM	1 -2' Sand W/ trace silt, Fine grade, Dark brown
M				BH05	2.5	2.5	SP-SM	1 -2' Sand W/ trace silt, Fine grade, Dark brown
						3		
M	1,276.8	0		BH05	4	4	SP-SM	1-2' Sand W/abundant limestone gravel, poorly sorted, light brown
M	515.2	0		BH05	5	5	SAA	SAA TD at 5 ft bgs Refusal at 5 ft bgs

ENSOLUM

Sample Name: BH06	Date: 5/31/23
Site Name: Wool Head Pad D	
Incident Number: nAPP2312244897	
Job Number: 03A2270001	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: Cole Burton	Method: Hand Auger
Coordinates: 32.45801, -103.602108	Hole Diameter: 3"
	Total Depth: 8 ft bgs

Comments: Field screening conducted with Chloride Titration and PID for chloride and vapor, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M				BH06	0	0	CCHC	0 - 1' Caliche, Medium brown, Medium grade, Moist, Light staining
M				BH06	1	1	SP-SM	1 -2' Sand, Dark brown, Medium grade, Red, Moist, Noncohesive
M		23.9		BH06	2	2	SP-SM	2 -3' Sand W/ trace silt, Fine grade, Medium brown
M				BH06	3	3	SP-SM	3 -4' Sand W/ trace silt, Fine grade, Medium brown
M				BH06	4	4	SP-SM	4 -5' Sand W/ trace silt, Fine grade, Medium brown
M	500			BH06	5	5	SP-SM	5 -6' Sand W/ trace silt, Fine grade, Medium brown
M	280	0		BH06	6	6	SAA	SAA
M	173.6	0		BH06	7	7	SAA	SAA
M	571.2	0		BH06	8	8	SP-SM	5-6' Sand W/abundant limestone gravel, poorly sorted, light brown TD at 8 ft bgs

ENSOLUM

	Sample Name: BH07	Date: 5/31/23
	Site Name: Wool Head Pad D	
	Incident Number: nAPP2312244897	
	Job Number: 03A2270001	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: Cole Burton	Method: Hand Auger
Coordinates: 32.45801, -103.602108	Hole Diameter: 3"	Total Depth: 10 ft bgs

Comments: Field screening conducted with Chloride Titration and PID for chloride and vapor, respectively. Chloride test performed with 1:1 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M				BH07	0	0	CCHC	0 - 1' Caliche, Medium brown, Medium grade, Moist, Light staining
M				BH07	1	1	SP-SM	1 -2' Sand, Dark brown, Medium grade, Red, Moist, Noncohesive
M				BH07	2	2	SP-SM	2 -3' Sand W/ trace silt, Fine grade, Dark brown
M	1000			BH07	3	3	SP-SM	3 -4' Sand W/ trace silt, Fine grade, Dark brown
M	900			BH07	4	4	SP-SM	4 -5' Sand W/ trace silt, Fine grade, Dark brown
M				BH07	5	5	SP-SM	5 -6' Sand W/ trace silt, Fine grade, Dark brown
M	1000			BH07	6	6	SP-SM	6 -7' Sand W/ trace silt, Fine grade, Dark brown
M				BH07	7	7	SP-SM	7 -8' Sand W/ trace silt, Fine grade, Dark brown
M				BH07	8	8	SP-SM	8 -9' Sand W/ trace silt, Fine grade, Dark brown
M	500			BH07	9	9	SP-SM	9 -9.5' Sand W/ trace silt, Fine grade, Dark brown
M	500			BH07	9.5			9.5 -10' Sand W/ trace silt, Fine grade, Dark brown
M	459.2	0		BH07	10	10	SAA	SAA TD at 10 ft bgs

ENSOLUM

APPENDIX D

Photographic Log

ENSOLUM

Photographic Log
Matador Production Company
Wool Head Pad D
nAPP2312244897

Photograph 1 Date: 5-09-2023
Description: Liner Inspection
View: Northeast

Photograph 2 Date: 5-30-2023
Description: Wellhead Signs
View: Southwest

Photograph 3 Date: 5-30-2023
Description: Delineation Activities
View: West

Photograph 4 Date: 5-30-2023
Description: Delineation Activities
View: South

ENSOLUM

Photographic Log
Matador Production Company
Wool Head Pad D
nAPP2312244897

Photograph 5 Date: 5-31-2023
Description: Delineation Activities
View: South

Photograph 6 Date: 5-31-2023
Description: Delineation Activities
View: East

Photograph 7 Date: 6-01-2023
Description: Liner Patch
View: West

Photograph 8 Date: 6-12-2023
Description: Delineation Sampling
View: Southeast

ENSOLUM

Photographic Log
Matador Production Company
Wool Head Pad D
nAPP2312244897

Photograph 9 Date: 06-12-2023
Description: Liner Patch
View: Northeast

Photograph 10 Date: 06-12-2023
Description: Liner Patch
View: Southwest

Photograph 11 Date: 6-12-2023
Description: Liner Patch
View: South

Photograph 12 Date: 6-12-2023
Description: Liner Patch
View: Northeast

ENSOLUM

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 Production Company

Project Name:	Wool Head Pad D
Work Order:	E306009
Job Number:	23052-0001
Received:	6/2/2023

Revision: 3

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/8/23

Date Reported: 6/8/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306009
Date Received: 6/2/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/2/2023 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/08/23 15:02

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01C - 0.5'	E306009-01A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
SS02 - 0'	E306009-02A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
SS03 - 0'	E306009-03A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
SS04 - 0'	E306009-04A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
SS05A - 0'	E306009-05A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
SS06B - 0.5'	E306009-06A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH01 - 0'	E306009-07A	Soil	05/30/23	06/02/23	Glass Jar, 4 oz.
BH01 - 1'	E306009-08A	Soil	05/30/23	06/02/23	Glass Jar, 4 oz.
BH01 - 2'	E306009-09A	Soil	05/30/23	06/02/23	Glass Jar, 4 oz.
BH02 - 0'	E306009-10A	Soil	05/30/23	06/02/23	Glass Jar, 4 oz.
BH03 - 0'	E306009-11A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH03 - 1'	E306009-12A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH03 - 2'	E306009-13A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH04 - 0'	E306009-14A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH04 - 1'	E306009-15A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH04 - 2'	E306009-16A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH05 - 0'	E306009-17A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH05 - 1'	E306009-18A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH05 - 2'	E306009-19A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH06 - 0'	E306009-20A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

SS01C - 0.5'

E306009-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.5 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.0 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	**26.9**	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*113 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**319**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

SS02 - 0'

E306009-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	**65.6**	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	**65.5**	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*108 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**416**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

SS03 - 0'

E306009-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	**89.2**	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	**89.9**	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*111 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**32.1**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

SS04 - 0'

E306009-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.4 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.1 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*115 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**456**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

SS05A - 0'

E306009-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	**192**	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	**137**	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*115 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**501**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

SS06B - 0.5'

E306009-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.9 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	**61.8**	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	**60.9**	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*114 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**439**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH01 - 0'

E306009-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.4 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*113 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**873**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH01 - 1'

E306009-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.4 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*116 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**69.6**	20.0	1	06/02/23	06/07/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH01 - 2'

E306009-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.5 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/02/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/02/23	
Surrogate: n-Nonane		*111 %*	*50-200*	*06/02/23*	*06/02/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**62.1**	20.0	1	06/02/23	06/07/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH02 - 0'

E306009-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	**0.174**	0.0250	1	06/02/23	06/03/23	
Toluene	**0.0280**	0.0250	1	06/02/23	06/03/23	
o-Xylene	**0.238**	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	**0.625**	0.0500	1	06/02/23	06/03/23	
Total Xylenes	**0.863**	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	**27.1**	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*95.5 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	**15300**	500	20	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	**5980**	1000	20	06/02/23	06/06/23	
Surrogate: n-Nonane		*111 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**1570**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH03 - 0'

E306009-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.5 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*105 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**124**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH03 - 1'

E306009-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*88.1 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*111 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**114**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH03 - 2'

E306009-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.8 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*115 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**112**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH04 - 0'

E306009-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*108 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**7520**	200	10	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH04 - 1'

E306009-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*111 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**42.6**	20.0	1	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH04 - 2'

E306009-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.4 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.1 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*115 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**251**	20.0	1	06/02/23	06/07/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH05 - 0'

E306009-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.9 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*115 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**1560**	20.0	1	06/02/23	06/06/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH05 - 1'

E306009-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.0 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*111 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**229**	20.0	1	06/02/23	06/06/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH05 - 2'

E306009-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*95.7 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/03/23	
Surrogate: n-Nonane		*109 %*	*50-200*	*06/02/23*	*06/03/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**10500**	200	10	06/02/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

BH06 - 0'

E306009-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	**0.183**	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	**0.491**	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	**0.987**	0.0500	1	06/02/23	06/03/23	
Total Xylenes	**1.48**	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2322055
Gasoline Range Organics (C6-C10)	**33.7**	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.9 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322052
Diesel Range Organics (C10-C28)	**7640**	250	10	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	**2560**	500	10	06/02/23	06/06/23	
Surrogate: n-Nonane		*110 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2322060
Chloride	**5470**	40.0	2	06/02/23	06/05/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322055-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
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	*7.69*		*8.00*		*96.1*	*70-130*			
LCS (2322055-BS1)									Prepared: 06/02/23 Analyzed: 06/02/23
Benzene	4.87	0.0250	5.00		97.4	70-130			
Ethylbenzene	4.85	0.0250	5.00		97.1	70-130			
Toluene	4.99	0.0250	5.00		99.7	70-130			
o-Xylene	4.97	0.0250	5.00		99.3	70-130			
p,m-Xylene	9.87	0.0500	10.0		98.7	70-130			
Total Xylenes	14.8	0.0250	15.0		98.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.73*		*8.00*		*96.7*	*70-130*			
Matrix Spike (2322055-MS1)				**Source: E306009-02**					Prepared: 06/02/23 Analyzed: 06/02/23
Benzene	4.61	0.0250	5.00	ND	92.2	54-133			
Ethylbenzene	4.59	0.0250	5.00	ND	91.8	61-133			
Toluene	4.72	0.0250	5.00	ND	94.5	61-130			
o-Xylene	4.71	0.0250	5.00	ND	94.2	63-131			
p,m-Xylene	9.34	0.0500	10.0	ND	93.4	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.6	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.55*		*8.00*		*94.4*	*70-130*			
Matrix Spike Dup (2322055-MSD1)				**Source: E306009-02**					Prepared: 06/02/23 Analyzed: 06/02/23
Benzene	4.69	0.0250	5.00	ND	93.8	54-133	1.69	20	
Ethylbenzene	4.67	0.0250	5.00	ND	93.3	61-133	1.63	20	
Toluene	4.80	0.0250	5.00	ND	96.0	61-130	1.61	20	
o-Xylene	4.79	0.0250	5.00	ND	95.9	63-131	1.79	20	
p,m-Xylene	9.49	0.0500	10.0	ND	94.9	63-131	1.67	20	
Total Xylenes	14.3	0.0250	15.0	ND	95.2	63-131	1.71	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.66*		*8.00*		*95.8*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322055-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.47*		*8.00*		*93.4*	*70-130*			
LCS (2322055-BS2)									Prepared: 06/02/23 Analyzed: 06/02/23
Gasoline Range Organics (C6-C10)	42.9	20.0	50.0		85.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.49*		*8.00*		*93.6*	*70-130*			
Matrix Spike (2322055-MS2)				**Source: E306009-02**					Prepared: 06/02/23 Analyzed: 06/02/23
Gasoline Range Organics (C6-C10)	45.0	20.0	50.0	ND	90.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.30*		*8.00*		*91.2*	*70-130*			
Matrix Spike Dup (2322055-MSD2)				**Source: E306009-02**					Prepared: 06/02/23 Analyzed: 06/02/23
Gasoline Range Organics (C6-C10)	47.7	20.0	50.0	ND	95.4	70-130	5.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.2*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322052-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*60.8*		*50.0*		*122*	*50-200*			
LCS (2322052-BS1)									Prepared: 06/02/23 Analyzed: 06/02/23
Diesel Range Organics (C10-C28)	278	25.0	250		111	38-132			
Surrogate: n-Nonane	*56.1*		*50.0*		*112*	*50-200*			
Matrix Spike (2322052-MS1)				**Source: E306009-20**					Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	8740	250	250	7640	443	38-132			M4
Surrogate: n-Nonane	*52.4*		*50.0*		*105*	*50-200*			
Matrix Spike Dup (2322052-MSD1)				**Source: E306009-20**					Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	8760	250	250	7640	450	38-132	0.183	20	M4
Surrogate: n-Nonane	*54.0*		*50.0*		*108*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 3:02:57PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322060-BLK1)									Prepared: 06/02/23 Analyzed: 06/05/23
Chloride	ND	20.0							
LCS (2322060-BS1)									Prepared: 06/02/23 Analyzed: 06/06/23
Chloride	246	20.0	250		98.3	90-110			
Matrix Spike (2322060-MS1)				**Source: E306009-20**					Prepared: 06/02/23 Analyzed: 06/05/23
Chloride	5620	40.0	250	5470	57.8	80-120			M2
Matrix Spike Dup (2322060-MSD1)				**Source: E306009-20**					Prepared: 06/02/23 Analyzed: 06/05/23
Chloride	5700	40.0	250	5470	89.7	80-120	1.41	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 Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/08/23 15:02

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

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

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

Client: Matador Production Company	Bill To	Lab Use Only		TAT				EPA Program	
Project: Wool Head Pad D	Attention: Matador Production Co	Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
Project Manager: Ashley Givoengo	Address: On File	E306009	23052-0001				X		
Address: 3122 National Parks HWY	City, State, Zip:	Analysis and Method							RCRA
City, State, Zip: Carlsbad, NM 88220	Phone: 337-319-8398							State	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com							NM: X	CO, UT, AZ, TX
Email: agiovengo@ensolum.com									
Report due by:									

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
10:42	5/31/23	S	1	SS01C-0.5'	1								X				
8:42	5/31/23	S	1	SS02-0'	2								X				
8:45	5/31/23	S	1	SS03-0'	3								X				
8:47	5/31/23	S	1	SS04-0'	4								X				
10:15	5/31/23	S	1	SS05A-0'	5								X				
10:10	5/31/23	S	1	SS06B-0.5'	6								X				
11:04	5/30/23	S	1	BH01-0'	7								X				
11:09	5/30/23	S	1	BH01-1'	8								X				
11:11	5/30/23	S	1	BH01-2'	9								X				
11:17	5/30/23	S	1	BH02-0'	10								X				

Additional Instructions: Preserved on ice; Please cc agiovengo cburton @ ensolum.com and clinton.talley@matadorresources.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	06/01/23	1000	Michelle Camps	6-1-23	1000
Michelle Camps	6-1-23	1600	Andrew Musso	6-1-23	1730
Andrew Musso	6-1-23	2400	Caitlin Mars	6/2/23	8:15

Lab Use Only
Received on ice: (Y) / N
T1 ____ T2 ____ T3 ____
AVG Temp °C 4

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

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

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

envirotech

Project Information | Chain of Custody | Page 2 of 4

Client: Matador Production Company	Bill To	Lab Use Only	TAT / EPA Program
Project: Wool Head Pad D	Attention: Matador Production Co	Lab WO# E306009	Job Number 23052-0001
Project Manager: Ashley Givoengo	Address: On File	1D 2D 3D Standard: X	CWA / SDWA / RCRA
Address: 3122 National Parks HWY	City, State, Zip:	Analysis and Method	State: NM CO UT AZ TX
City, State, Zip: Carlsbad, NM 88220	Phone: 337-319-8398		
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com		
Email: agiovengo@ensolum.com			
Report due by:			

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
7:27	5/31/23	S	1	BH03-0'	11						X		
7:30	5/31/23	S	1	BH03-1'	12						X		
7:34	5/31/23	S	1	BH03-2	13						X		
7:45	5/31/23	S	1	BH04-0'	14						X		
7:50	5/31/23	S	1	BH04-1'	15						X		
7:52	5/31/23	S	1	BH04-2'	16						X		
8:00	5/31/23	S	1	BH05-1'	17						X		
8:05	5/31/23	S	1	BH05-2'	18						X		
8:06	5/31/23	S	1	BH05-3'	19						X		
8:15	5/31/23	S	1	BH06-0'	20						X		

Additional Instructions: Preserved on ice; Please cc agiovengo cburton @ ensolum.com and clinton.talley@matadorresources.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	06/01/23	1000	Michelle Garza	6-1-23	1000
Michelle Garza	6-1-23	1600	[illegible]	6-1-23	1730
[illegible]	6-1-23	[illegible]	[illegible]	6/2/23	8:15

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: **S** - Soil, **Sd** - Solid, **Sg** - Sludge, **A** - Aqueous, **O** - Other _____
Container Type: **g** - glass, **p** - poly/plastic, **ag** - amber glass, v - VOA

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/2/2023 10:41:29AM

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 Production Company	Date Received:	06/02/23 08:15	Work Order ID:	E306009
Phone:	(575) 988-0055	Date Logged In:	06/02/23 08:51	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/08/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Project Wool Head Pad D has been separated into 2 reports due to high sample volume. Workorders are as follows: E306009 and E306010.

Client Instruction

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

Date

envirotech Inc.

Project Information | Chain of Custody | Page 1 of 4

Client: Matador Production Company	**Bill To**
Project: Wool Head Pad D	Attention: Matador Production Co
Project Manager: Ashley Givoengo	Address: On File
Address: 3122 National Parks HWY	City, State, Zip:
City, State, Zip: Carlsbad, NM 88220	Phone: 337-319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only

Lab WO# E306009 | Job Number 23052-0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:42	5/31/23	S	1	SS01C-0.5'	1						X		
8:42	5/31/23	S	1	SS02-0'	2						X		
8:45	5/31/23	S	1	SS03-0'	3						X		
8:47	5/31/23	S	1	SS04-0'	4						X		
10:15	5/31/23	S	1	SS05A-0'	5						X		
10:10	5/31/23	S	1	SS06B-0.5'	6						X		
11:04	5/30/23	S	1	BH01-0'	7						X		
11:09	5/30/23	S	1	BH01-1'	8						X		
11:11	5/30/23	S	1	BH01-2'	9						X		
11:17	5/30/23	S	1	BH02-0'	10						X		

Additional Instructions: Preserved on ice; Please cc agiovengo cburton @ ensolum.com and clinton.talley@matadorresources.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	06/01/23	1000	Michelle Lewis	6-1-23	1000
Michelle Lewis	6-1-23	1600	Andrew Messo	6-1-23	1730
Andrew Messo	6-1-23	2400	Caitlin Mars	6/2/23	8:15

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

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

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

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

envirotech

Project Information | Chain of Custody | Page 2 of 4

Client: Matador Production Company Project: Wool Head Pad D Project Manager: Ashley Givoengo Address: 3122 National Parks HWY City, State, Zip: Carlsbad, NM 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Report due by:	**Bill To** Attention: Matador Production Co Address: On File City, State, Zip: Phone: 337-319-8398 Email: clinton.talley@matadorresources.com	Lab Use Only Lab WO# E306009 Job Number 23052-0001

TAT: 1D | 2D | 3D | Standard: X

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: TPH GRO/DRO/ORO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM | GDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
7:27	5/31/23	S	1	BH03-0'	11	Changed sample names for samples 17-19 per Cole. 6/8/23 CM
7:30	5/31/23	S	1	BH03-1'	12	
7:34	5/31/23	S	1	BH03-2	13	
7:45	5/31/23	S	1	BH04-0'	14	
7:50	5/31/23	S	1	BH04-1'	15	
7:52	5/31/23	S	1	BH04-2'	16	
8:00	5/31/23	S	1	BH05-~~1'~~ 0'	17	
8:05	5/31/23	S	1	BH05-~~2'~~ 1'	18	
8:06	5/31/23	S	1	BH05-~~3'~~ 2'	19	
8:15	5/31/23	S	1	BH06-0'	20	

Additional Instructions: Preserved on ice; Please cc agiovengo cburton @ ensolum.com and clinton.talley@matadorresources.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	06/01/23	1000	Michelle Garcia	6-1-23	1000
Michelle Garcia	6-1-23	1600	[illegible]	6-1-23	1730
[illegible]	6-1-23	[illegible]	Cole Mon	6/2/23	8:15

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

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 Production Company

Project Name:	Wool Head Pad D
Work Order:	E306010
Job Number:	23052-0001
Received:	6/2/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/7/23

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: 6/7/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306010
Date Received: 6/2/2023 8:15:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/2/2023 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Table of Contents (continued)

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/07/23 16:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 - 1'	E306010-01A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH06 - 2'	E306010-02A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH06 - 3'	E306010-03A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH06 - 4'	E306010-04A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH06 - 5'	E306010-05A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 0'	E306010-06A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 1'	E306010-07A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 2'	E306010-08A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 3'	E306010-09A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 4'	E306010-10A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 5'	E306010-11A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 6'	E306010-12A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 7'	E306010-13A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 8'	E306010-14A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH07 - 9'	E306010-15A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH06 - 1'

E306010-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.9 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**78.0**	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/06/23	
Surrogate: n-Nonane		*115 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**2530**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH06 - 2'

E306010-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/02/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/02/23	
Toluene	ND	0.0250	1	06/02/23	06/02/23	
o-Xylene	ND	0.0250	1	06/02/23	06/02/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/02/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/02/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.1 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/02/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*06/02/23*	*06/02/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**43.3**	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/06/23	
Surrogate: n-Nonane		*109 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**4820**	40.0	2	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH06 - 3'

E306010-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.8 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**49.7**	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/06/23	
Surrogate: n-Nonane		*117 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**4810**	40.0	2	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH06 - 4'

E306010-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*98.4 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.0 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**74.1**	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	**52.9**	50.0	1	06/02/23	06/06/23	
Surrogate: n-Nonane		*114 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**862**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH06 - 5'

E306010-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**409**	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	**197**	50.0	1	06/02/23	06/06/23	
Surrogate: n-Nonane		*120 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**999**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 0'

E306010-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	**0.113**	0.0250	1	06/02/23	06/03/23	
Toluene	**0.0393**	0.0250	1	06/02/23	06/03/23	
o-Xylene	**0.403**	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	**0.775**	0.0500	1	06/02/23	06/03/23	
Total Xylenes	**1.18**	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*110 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	**28.8**	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.3 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**3450**	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	**1280**	50.0	1	06/02/23	06/06/23	
Surrogate: n-Nonane		*121 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**4680**	40.0	2	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 1'

E306010-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*102 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.9 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**31.8**	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*115 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**1700**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 2'

E306010-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.5 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.1 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**51.1**	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/06/23	
Surrogate: n-Nonane		*116 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**1150**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 3'

E306010-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.8 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**86.7**	25.0	1	06/02/23	06/06/23	
Oil Range Organics (C28-C36)	**55.8**	50.0	1	06/02/23	06/06/23	
Surrogate: n-Nonane		*121 %*	*50-200*	*06/02/23*	*06/06/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**874**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 4'

E306010-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.9 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**43.4**	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*117 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**887**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 5'

E306010-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*119 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**1080**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 6'

E306010-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**1270**	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	**498**	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*119 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**992**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 7'

E306010-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.9 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.4 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**69.8**	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	**66.4**	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*116 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**671**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 8'

E306010-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.8 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**148**	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	**87.1**	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*116 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**778**	20.0	1	06/05/23	06/05/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

BH07 - 9'

E306010-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.2 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	**79.9**	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	**52.7**	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*116 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323006
Chloride	**378**	20.0	1	06/05/23	06/05/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322056-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
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	*7.82*		*8.00*		*97.7*	*70-130*			
LCS (2322056-BS1)									Prepared: 06/02/23 Analyzed: 06/02/23
Benzene	4.29	0.0250	5.00		85.8	70-130			
Ethylbenzene	4.20	0.0250	5.00		84.1	70-130			
Toluene	4.41	0.0250	5.00		88.2	70-130			
o-Xylene	4.39	0.0250	5.00		87.8	70-130			
p,m-Xylene	8.69	0.0500	10.0		86.9	70-130			
Total Xylenes	13.1	0.0250	15.0		87.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.89*		*8.00*		*98.6*	*70-130*			
Matrix Spike (2322056-MS1)				**Source: E306010-02**					Prepared: 06/02/23 Analyzed: 06/02/23
Benzene	4.84	0.0250	5.00	ND	96.8	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.5	61-133			
Toluene	4.97	0.0250	5.00	ND	99.4	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.98*		*8.00*		*99.7*	*70-130*			
Matrix Spike Dup (2322056-MSD1)				**Source: E306010-02**					Prepared: 06/02/23 Analyzed: 06/03/23
Benzene	4.80	0.0250	5.00	ND	96.0	54-133	0.814	20	
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133	0.902	20	
Toluene	4.93	0.0250	5.00	ND	98.6	61-130	0.814	20	
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	0.409	20	
p,m-Xylene	9.65	0.0500	10.0	ND	96.5	63-131	0.816	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.678	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.02*		*8.00*		*100*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322056-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.25*		*8.00*		*90.6*	*70-130*			
LCS (2322056-BS2)									Prepared: 06/02/23 Analyzed: 06/02/23
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.36*		*8.00*		*92.0*	*70-130*			
Matrix Spike (2322056-MS2)				**Source: E306010-02**					Prepared: 06/02/23 Analyzed: 06/03/23
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.2*	*70-130*			
Matrix Spike Dup (2322056-MSD2)				**Source: E306010-02**					Prepared: 06/02/23 Analyzed: 06/03/23
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	6.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.30*		*8.00*		*91.3*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322054-BLK1)									Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*59.0*		*50.0*		*118*	*50-200*			
LCS (2322054-BS1)									Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132			
Surrogate: n-Nonane	*59.8*		*50.0*		*120*	*50-200*			
Matrix Spike (2322054-MS1)				**Source: E306010-10**					Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	358	25.0	250	43.4	126	38-132			
Surrogate: n-Nonane	*60.1*		*50.0*		*120*	*50-200*			
Matrix Spike Dup (2322054-MSD1)				**Source: E306010-10**					Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	342	25.0	250	43.4	120	38-132	4.39	20	
Surrogate: n-Nonane	*55.1*		*50.0*		*110*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:30:08PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2323006-BLK1)									Prepared: 06/05/23 Analyzed: 06/05/23
Chloride	ND	20.0							
LCS (2323006-BS1)									Prepared: 06/05/23 Analyzed: 06/05/23
Chloride	247	20.0	250		98.9	90-110			
Matrix Spike (2323006-MS1)				**Source: E306010-01**					Prepared: 06/05/23 Analyzed: 06/05/23
Chloride	2650	20.0	250	2530	49.9	80-120			M2
Matrix Spike Dup (2323006-MSD1)				**Source: E306010-01**					Prepared: 06/05/23 Analyzed: 06/05/23
Chloride	2750	20.0	250	2530	89.8	80-120	3.70	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 Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/07/23 16:30

M2	Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
DNI	Did Not Ignite

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

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

Client: Matador Production Company	**Bill To**
Project: Wool Head Pad D	Attention: Matador Production Co
Project Manager: Ashley Givoengo	Address: On File
Address: 3122 National Parks HWY	City, State, Zip:
City, State, Zip: Carlsbad, NM 88220	Phone: 337-319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO# E30G010	Job Number 23052-0001	1D	2D	3D	Standard	CWA	SDWA
					X		

State					
NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
8:18	5/31/23	S	1	BH06-1'	1						X		
8:20	5/31/23	S	1	BH06-2'	2						X		
11:05	5/31/23	S	1	BH06-3'	3						X		
13:35	5/31/23	S	1	BH06-4'	4						X		
13:42	5/31/23	S	1	BH06-5'	5						X		
8:30	5/31/23	S	1	BH07-0'	6						X		
8:31	5/31/23	S	1	BH07-1'	7						X		
8:32	5/31/23	S	1	BH07-2'	8						X		
10:57	5/31/23	S	1	BH07-3'	9						X		
11:00	5/31/23	S	1	BH07-4'	10						X		

Additional Instructions: Preserved on ice; Please cc agiovengo cburton @ ensolum.com and clinton.talley@matadorresources.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/01/23	1000	Michelle Campos	6-1-23	1000
Michelle Campos	6-1-23	1600	Andrew Messo	6-1-23	1730
Andrew Messo	6-1-23	2400	Caitlin Man	6/2/23	8:15

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

Project Information | Chain of Custody | Page 4 of 4

Client: Matador Production Company	**Bill To**
Project: Wool Head Pad D	Attention: Matador Production Co
Project Manager: Ashley Givoengo	Address: On File
Address: 3122 National Parks HWY	City, State, Zip:
City, State, Zip: Carlsbad, NM 88220	Phone: 337-319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E306010	23052-0001				X		

Analysis and Method													RCRA
	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX			
												State	
												NM CO UT AZ TX	
												X	

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
13:45	5/31/23	S	1	BH07-5'	11	
13:48	5/31/23	S	1	BH07-6'	12	
14:30	5/31/23	S	1	BH07-7'	13	
14:31	5/31/23	S	1	BH07-8'	14	
14:35	5/31/23	S	1	BH07-9'	15	

Additional Instructions: Preserved on ice; Please cc agiovengo cburton @ ensolum.com and clinton.talley@matadorresources.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	06/01/23	1000	Michelle Gaugle	6-1-23	1000
Michelle Gaugle	6-1-23	1600	Andrea Messo	6-1-23	1730
Andrea Messo	6-1-23	2400	Earth Mon	6/2/23	8:15

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/2/2023 10:49:41AM

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 Production Company	Date Received:	06/02/23 08:15	Work Order ID:	E306010
Phone:	(575) 988-0055	Date Logged In:	06/02/23 08:53	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/08/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Project Wool Head Pad D has been separated into 2 reports due to high sample volume. Workorders are as follows: E306009 and E306010.

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Production Company

Project Name:	Wool Head Pad D
Work Order:	E306012
Job Number:	23052-0001
Received:	6/2/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/7/23

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: 6/7/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306012
Date Received: 6/2/2023 8:25:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/2/2023 8:25:00AM, 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/07/23 16:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 - 1	E306012-01A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.
BH02 - 2'	E306012-02A	Soil	05/31/23	06/02/23	Glass Jar, 4 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:27:11PM

BH02 - 1

E306012-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*100 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*114 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323005
Chloride	**93.0**	20.0	1	06/05/23	06/06/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:27:11PM

BH02 - 2'

E306012-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Benzene	ND	0.0250	1	06/02/23	06/03/23	
Ethylbenzene	ND	0.0250	1	06/02/23	06/03/23	
Toluene	ND	0.0250	1	06/02/23	06/03/23	
o-Xylene	ND	0.0250	1	06/02/23	06/03/23	
p,m-Xylene	ND	0.0500	1	06/02/23	06/03/23	
Total Xylenes	ND	0.0250	1	06/02/23	06/03/23	
Surrogate: 4-Bromochlorobenzene-PID		*99.6 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2322056
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/02/23	06/03/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*06/02/23*	*06/03/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2322054
Diesel Range Organics (C10-C28)	ND	25.0	1	06/02/23	06/07/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/02/23	06/07/23	
Surrogate: n-Nonane		*118 %*	*50-200*	*06/02/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323005
Chloride	**148**	20.0	1	06/05/23	06/06/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:27:11PM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322056-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
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	*7.82*		*8.00*		*97.7*	*70-130*			
LCS (2322056-BS1)									Prepared: 06/02/23 Analyzed: 06/02/23
Benzene	4.29	0.0250	5.00		85.8	70-130			
Ethylbenzene	4.20	0.0250	5.00		84.1	70-130			
Toluene	4.41	0.0250	5.00		88.2	70-130			
o-Xylene	4.39	0.0250	5.00		87.8	70-130			
p,m-Xylene	8.69	0.0500	10.0		86.9	70-130			
Total Xylenes	13.1	0.0250	15.0		87.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.89*		*8.00*		*98.6*	*70-130*			
Matrix Spike (2322056-MS1)				**Source: E306010-02**					Prepared: 06/02/23 Analyzed: 06/02/23
Benzene	4.84	0.0250	5.00	ND	96.8	54-133			
Ethylbenzene	4.72	0.0250	5.00	ND	94.5	61-133			
Toluene	4.97	0.0250	5.00	ND	99.4	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.1	63-131			
p,m-Xylene	9.73	0.0500	10.0	ND	97.3	63-131			
Total Xylenes	14.7	0.0250	15.0	ND	97.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.98*		*8.00*		*99.7*	*70-130*			
Matrix Spike Dup (2322056-MSD1)				**Source: E306010-02**					Prepared: 06/02/23 Analyzed: 06/03/23
Benzene	4.80	0.0250	5.00	ND	96.0	54-133	0.814	20	
Ethylbenzene	4.68	0.0250	5.00	ND	93.6	61-133	0.902	20	
Toluene	4.93	0.0250	5.00	ND	98.6	61-130	0.814	20	
o-Xylene	4.93	0.0250	5.00	ND	98.7	63-131	0.409	20	
p,m-Xylene	9.65	0.0500	10.0	ND	96.5	63-131	0.816	20	
Total Xylenes	14.6	0.0250	15.0	ND	97.2	63-131	0.678	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.02*		*8.00*		*100*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:27:11PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322056-BLK1)									Prepared: 06/02/23 Analyzed: 06/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.25*		*8.00*		*90.6*	*70-130*			
LCS (2322056-BS2)									Prepared: 06/02/23 Analyzed: 06/02/23
Gasoline Range Organics (C6-C10)	51.0	20.0	50.0		102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.36*		*8.00*		*92.0*	*70-130*			
Matrix Spike (2322056-MS2)				**Source: E306010-02**					Prepared: 06/02/23 Analyzed: 06/03/23
Gasoline Range Organics (C6-C10)	45.5	20.0	50.0	ND	91.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.37*		*8.00*		*92.2*	*70-130*			
Matrix Spike Dup (2322056-MSD2)				**Source: E306010-02**					Prepared: 06/02/23 Analyzed: 06/03/23
Gasoline Range Organics (C6-C10)	48.7	20.0	50.0	ND	97.4	70-130	6.82	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.30*		*8.00*		*91.3*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:27:11PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2322054-BLK1)									Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*59.0*		*50.0*		*118*	*50-200*			
LCS (2322054-BS1)									Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132			
Surrogate: n-Nonane	*59.8*		*50.0*		*120*	*50-200*			
Matrix Spike (2322054-MS1)				**Source: E306010-10**					Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	358	25.0	250	43.4	126	38-132			
Surrogate: n-Nonane	*60.1*		*50.0*		*120*	*50-200*			
Matrix Spike Dup (2322054-MSD1)				**Source: E306010-10**					Prepared: 06/02/23 Analyzed: 06/06/23
Diesel Range Organics (C10-C28)	342	25.0	250	43.4	120	38-132	4.39	20	
Surrogate: n-Nonane	*55.1*		*50.0*		*110*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/7/2023 4:27:11PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2323005-BLK1)									Prepared: 06/05/23 Analyzed: 06/05/23
Chloride	ND	20.0							
LCS (2323005-BS1)									Prepared: 06/05/23 Analyzed: 06/05/23
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2323005-MS1)				**Source: E306003-01**					Prepared: 06/05/23 Analyzed: 06/07/23
Chloride	271	200	250	ND	109	80-120			
Matrix Spike Dup (2323005-MSD1)				**Source: E306003-01**					Prepared: 06/05/23 Analyzed: 06/07/23
Chloride	342	200	250	ND	137	80-120	23.1	20	M5

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

Definitions and Notes

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/07/23 16:27

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company Project: Wool Head Pad D Project Manager: Ashley Givoengo Address: 3122 National Parks HWY City, State, Zip: Carlsbad, NM 88220 Phone: 575-988-0055 Email: agiovengo@ensolum.com Report due by:		**Bill To** Attention: Matador Production Co Address: On File City, State, Zip: Phone: 337-319-8398 Email: clinton.talley@matadorresources.com

Lab Use Only

Lab WO#	Job Number
E306012	23052-0001

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
11:21	5/31/23	S	1	BH02-1	1						X		
11:24	5/31/23	S	1	BH02-2'	2						X		

Additional Instructions: Preserved on ice; Please cc agiovengo cburton @ ensolum.com and clinton.talley@matadorresources.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	06/01/23	1000	Michelle Campos	6-1-23	1000
Michelle Campos	6-1-23	1600	Andrew Moss	6-1-23	1730
Andrew Moss	6-1-23	2400	Caitlin Mars	6/2/23	8:25

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/2/2023 9:10:41AM

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 Production Company	Date Received:	06/02/23 08:15	Work Order ID:	E306012
Phone:	(575) 988-0055	Date Logged In:	06/02/23 09:08	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/08/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Production Company

Project Name:	Wool Head Pad D
Work Order:	E306035
Job Number:	23052-0001
Received:	6/6/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/8/23

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: 6/8/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306035
Date Received: 6/6/2023 8:20:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2023 8:20:00AM, 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/08/23 13:53

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 - 9.5'	E306035-01A	Soil	05/31/23	06/06/23	Glass Jar, 4 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 1:53:42PM

BH07 - 9.5'

E306035-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2323009
Benzene	ND	0.0250	1	06/06/23	06/07/23	
Ethylbenzene	ND	0.0250	1	06/06/23	06/07/23	
Toluene	ND	0.0250	1	06/06/23	06/07/23	
o-Xylene	ND	0.0250	1	06/06/23	06/07/23	
p,m-Xylene	ND	0.0500	1	06/06/23	06/07/23	
Total Xylenes	ND	0.0250	1	06/06/23	06/07/23	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*06/06/23*	*06/07/23*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/06/23*	*06/07/23*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*06/06/23*	*06/07/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2323009
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/23	06/07/23	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*06/06/23*	*06/07/23*	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*06/06/23*	*06/07/23*	
Surrogate: Toluene-d8		*104 %*	*70-130*	*06/06/23*	*06/07/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2323029
Diesel Range Organics (C10-C28)	**157**	25.0	1	06/07/23	06/07/23	
Oil Range Organics (C28-C36)	**84.9**	50.0	1	06/07/23	06/07/23	
Surrogate: n-Nonane		*126 %*	*50-200*	*06/07/23*	*06/07/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2323031
Chloride	**545**	20.0	1	06/07/23	06/07/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 1:53:42PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2323009-BLK1)									Prepared: 06/06/23 Analyzed: 06/06/23
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	*0.509*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
LCS (2323009-BS1)									Prepared: 06/06/23 Analyzed: 06/06/23
Benzene	2.56	0.0250	2.50		102	70-130			
Ethylbenzene	2.58	0.0250	2.50		103	70-130			
Toluene	2.64	0.0250	2.50		106	70-130			
o-Xylene	2.65	0.0250	2.50		106	70-130			
p,m-Xylene	5.29	0.0500	5.00		106	70-130			
Total Xylenes	7.94	0.0250	7.50		106	70-130			
Surrogate: Bromofluorobenzene	*0.488*		*0.500*		*97.5*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.491*		*0.500*		*98.2*	*70-130*			
Surrogate: Toluene-d8	*0.514*		*0.500*		*103*	*70-130*			
Matrix Spike (2323009-MS1)				**Source: E306026-01**					Prepared: 06/06/23 Analyzed: 06/06/23
Benzene	2.16	0.0250	2.50	ND	86.3	48-131			
Ethylbenzene	2.15	0.0250	2.50	ND	85.9	45-135			
Toluene	2.19	0.0250	2.50	ND	87.6	48-130			
o-Xylene	2.27	0.0250	2.50	ND	90.8	43-135			
p,m-Xylene	4.48	0.0500	5.00	ND	89.6	43-135			
Total Xylenes	6.75	0.0250	7.50	ND	90.0	43-135			
Surrogate: Bromofluorobenzene	*0.493*		*0.500*		*98.6*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.511*		*0.500*		*102*	*70-130*			
Surrogate: Toluene-d8	*0.507*		*0.500*		*101*	*70-130*			
Matrix Spike Dup (2323009-MSD1)				**Source: E306026-01**					Prepared: 06/06/23 Analyzed: 06/06/23
Benzene	2.46	0.0250	2.50	ND	98.4	48-131	13.1	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.5	45-135	12.7	27	
Toluene	2.47	0.0250	2.50	ND	98.7	48-130	12.0	24	
o-Xylene	2.55	0.0250	2.50	ND	102	43-135	11.6	27	
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135	11.7	27	
Total Xylenes	7.59	0.0250	7.50	ND	101	43-135	11.7	27	
Surrogate: Bromofluorobenzene	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.531*		*0.500*		*106*	*70-130*			
Surrogate: Toluene-d8	*0.502*		*0.500*		*100*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 1:53:42PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2323009-BLK1)									Prepared: 06/06/23 Analyzed: 06/06/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.509*		*0.500*		*102*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.489*		*0.500*		*97.7*	*70-130*			
Surrogate: Toluene-d8	*0.522*		*0.500*		*104*	*70-130*			
LCS (2323009-BS2)									Prepared: 06/06/23 Analyzed: 06/06/23
Gasoline Range Organics (C6-C10)	56.0	20.0	50.0		112	70-130			
Surrogate: Bromofluorobenzene	*0.516*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.529*		*0.500*		*106*	*70-130*			
Matrix Spike (2323009-MS2)				**Source: E306026-01**					Prepared: 06/06/23 Analyzed: 06/06/23
Gasoline Range Organics (C6-C10)	59.9	20.0	50.0	ND	120	70-130			
Surrogate: Bromofluorobenzene	*0.521*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.504*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.521*		*0.500*		*104*	*70-130*			
Matrix Spike Dup (2323009-MSD2)				**Source: E306026-01**					Prepared: 06/06/23 Analyzed: 06/06/23
Gasoline Range Organics (C6-C10)	59.4	20.0	50.0	ND	119	70-130	0.778	20	
Surrogate: Bromofluorobenzene	*0.514*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: Toluene-d8	*0.527*		*0.500*		*105*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 1:53:42PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2323029-BLK1)									Prepared: 06/07/23 Analyzed: 06/07/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*60.7*		*50.0*		*121*	*50-200*			
LCS (2323029-BS1)									Prepared: 06/07/23 Analyzed: 06/07/23
Diesel Range Organics (C10-C28)	287	25.0	250		115	38-132			
Surrogate: n-Nonane	*41.1*		*50.0*		*82.2*	*50-200*			
Matrix Spike (2323029-MS1)				**Source: E306036-05**					Prepared: 06/07/23 Analyzed: 06/07/23
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132			
Surrogate: n-Nonane	*36.9*		*50.0*		*73.8*	*50-200*			
Matrix Spike Dup (2323029-MSD1)				**Source: E306036-05**					Prepared: 06/07/23 Analyzed: 06/07/23
Diesel Range Organics (C10-C28)	290	25.0	250	ND	116	38-132	0.125	20	
Surrogate: n-Nonane	*38.8*		*50.0*		*77.6*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/8/2023 1:53:42PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2323031-BLK1)									Prepared: 06/07/23 Analyzed: 06/07/23
Chloride	ND	20.0							
LCS (2323031-BS1)									Prepared: 06/07/23 Analyzed: 06/07/23
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2323031-MS1)				**Source: E306035-01**					Prepared: 06/07/23 Analyzed: 06/07/23
Chloride	781	20.0	250	545	94.3	80-120			
Matrix Spike Dup (2323031-MSD1)				**Source: E306035-01**					Prepared: 06/07/23 Analyzed: 06/07/23
Chloride	801	20.0	250	545	102	80-120	2.56	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 Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/08/23 13:53

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

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**
Project: Wool Head Pad D	Attention: Clint Talley
Project Manager: Ashley Giovengo	Address: On File
Address: 3122 National Parks Highway	City, State, Zip: On File
City, State, Zip: Carlsbad, NM 88220	Phone: 337-319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA
E306035	23052-0001				X		
							RCRA

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State NM	State CO	State UT	State AZ	State TX	Remarks
	5/31/23	S	1 jar	BH07-9.5'	1						X		X					

Additional Instructions: Preserved on ice. Please cc agiovengo@ensolum.com, cole.burton@ensolum.com and clinton.talley@matadorresources.com on lab results.

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6/05/23	10:21am		6-5-23	1021
Michelle Gonzales	6-5-23	1700	Andrew Mesa	6-5-23	1700
Andrew Mesa	6-5-23	1030		6/6/23	8:20

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/6/2023 9:22:51AM

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 Production Company	Date Received:	06/06/23 08:20	Work Order ID:	E306035
Phone:	(575) 988-0055	Date Logged In:	06/06/23 09:10	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/12/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	No	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Comments/Resolution

Time sampled not provided on COC per client

Client Instruction

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

Date

envirotech Inc.

Report to:

Ashley Giovengo

5796 U.S. Hwy 64
Farmington, NM 87401

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

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Matador Production Company

Project Name:	Wool Head Pad D
Work Order:	E306105
Job Number:	23052-0001
Received:	6/14/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/23

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: 6/19/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306105
Date Received: 6/14/2023 7:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2023 7:35:00AM, 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 14:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 - 5'	E306105-01A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:41:30PM

BH05 - 5'

E306105-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.3 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.4 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*84.9 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2324030
Chloride	**933**	20.0	1	06/14/23	06/15/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:41:30PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
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	*7.26*		*8.00*		*90.8*	*70-130*			
LCS (2324023-BS1)									Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.69	0.0250	5.00		93.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike (2324023-MS1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.61	0.0250	5.00	ND	92.2	54-133			
Ethylbenzene	4.58	0.0250	5.00	ND	91.6	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.3	63-131			
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.7*	*70-130*			
Matrix Spike Dup (2324023-MSD1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.54	0.0250	5.00	ND	90.9	54-133	1.40	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	1.05	20	
Toluene	4.65	0.0250	5.00	ND	93.0	61-130	1.23	20	
o-Xylene	4.64	0.0250	5.00	ND	92.7	63-131	0.569	20	
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131	1.13	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131	0.945	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:41:30PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.3*	*70-130*			
LCS (2324023-BS2)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			
Matrix Spike (2324023-MS2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike Dup (2324023-MSD2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	ND	91.5	70-130	4.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:41:30PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324031-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*34.5*		*50.0*		*69.1*	*50-200*			
LCS (2324031-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	246	25.0	250		98.5	38-132			
Surrogate: n-Nonane	*39.9*		*50.0*		*79.7*	*50-200*			
Matrix Spike (2324031-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	*34.2*		*50.0*		*68.4*	*50-200*			
Matrix Spike Dup (2324031-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	0.0430	20	
Surrogate: n-Nonane	*36.9*		*50.0*		*73.8*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:41:30PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324030-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	ND	20.0							
LCS (2324030-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2324030-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	276	20.0	250	23.0	101	80-120			
Matrix Spike Dup (2324030-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	278	20.0	250	23.0	102	80-120	0.843	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 Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 14:41

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

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	Lab Use Only: Lab WO# E306105 / Job Number 23052-0001
Project: Wood Head Pad D	Attention: Matador Production Co	TAT: 1D / 2D / 3D / Standard: x
Project Manager: Ashley Giovengo	Address: On File	EPA Program: CWA / SDWA / RCRA
Address: 3122 National Parks Hwy	City, State, Zi	State: NM x / CO / UT / AZ / TX
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	
Email: agiovengo@ensolum.com		
Report due by:		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
1250	6/12/2023	S	1	BH05-5'	1						X		

Analysis and Method

Additional Instructions: Preserved on ice; please cc agiovengo and cburton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6-13-23	1000	Michella Campos	6-13-23	1000
Michella Campos	6-13-23	1530	Andrew Mason	6-13-23	1700
Andrew Mason	6-13-23	2245		6/14/23	7:35

Lab Use Only: Received on ice: (Y) / N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/14/2023 10:06:35AM

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 Production Company	Date Received:	06/14/23 07:35	Work Order ID:	E306105
Phone:	(575) 988-0055	Date Logged In:	06/13/23 16:32	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/20/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Corrected project name per C. Burton 6/19/23 CM

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**
Project: ~~Wood~~ Head Pad D	Attention: Matador Production Co
Project Manager: Ashley Giovengo	Address: On File
Address: 3122 National Parks Hwy	City, State, Zi _
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only

Lab WO#	Job Number
E306105	23052-0001

TAT

1D	2D	3D	Standard
			x

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
						Analysis and Method											
1250	6/12/2023	S	1	BH05-5'	1								X				

Additional Instructions: Preserved on ice; please cc agiovengo and cburton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6-13-23	1000	Michella Campos	6-13-23	1000
Michella Campos	6-13-23	1530	Andrew Mason	6-13-23	1700
Andrew Mason	6-13-23	2245	Caitlin Mora	6/14/23	7:35

Lab Use Only
Received on ice: (Y) / N
T1 _____ T2 _____ T3 _____
AVG Temp °C 4

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

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

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

envirotech

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 Production Company

Project Name: Wool Head Pad D

Work Order: E306107

Job Number: 23052-0001

Received: 6/14/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/23

Date Reported: 6/19/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306107
Date Received: 6/14/2023 7:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2023 7:35:00AM, 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 14:43

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 - 8'	E306107-01A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:43:21PM

BH06 - 8'

E306107-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.8 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.7 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	**35.0**	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*86.5 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2324030
Chloride	**37.9**	20.0	1	06/14/23	06/15/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:43:21PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
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	*7.26*		*8.00*		*90.8*	*70-130*			
LCS (2324023-BS1)									Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.69	0.0250	5.00		93.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike (2324023-MS1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.61	0.0250	5.00	ND	92.2	54-133			
Ethylbenzene	4.58	0.0250	5.00	ND	91.6	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.3	63-131			
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.7*	*70-130*			
Matrix Spike Dup (2324023-MSD1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.54	0.0250	5.00	ND	90.9	54-133	1.40	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	1.05	20	
Toluene	4.65	0.0250	5.00	ND	93.0	61-130	1.23	20	
o-Xylene	4.64	0.0250	5.00	ND	92.7	63-131	0.569	20	
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131	1.13	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131	0.945	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:43:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.3*	*70-130*			
LCS (2324023-BS2)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			
Matrix Spike (2324023-MS2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike Dup (2324023-MSD2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	ND	91.5	70-130	4.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:43:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324031-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*34.5*		*50.0*		*69.1*	*50-200*			
LCS (2324031-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	246	25.0	250		98.5	38-132			
Surrogate: n-Nonane	*39.9*		*50.0*		*79.7*	*50-200*			
Matrix Spike (2324031-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	*34.2*		*50.0*		*68.4*	*50-200*			
Matrix Spike Dup (2324031-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	0.0430	20	
Surrogate: n-Nonane	*36.9*		*50.0*		*73.8*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:43:21PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324030-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	ND	20.0							
LCS (2324030-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2324030-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	276	20.0	250	23.0	101	80-120			
Matrix Spike Dup (2324030-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	278	20.0	250	23.0	102	80-120	0.843	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 Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 14:43

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

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	Lab Use Only: Lab WO# E306107 / Job Number 23052-0001
Project: Wood Head Pad D	Attention: Matador Production Co	TAT: 1D / 2D / 3D / Standard: X
Project Manager: Ashley Giovengo	Address: On File	EPA Program: CWA / SDWA / RCRA
Address: 3122 National Parks Hwy	City, State, Zi _	State: NM X / CO / UT / AZ / TX
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	
Email: agiovengo@ensolum.com		
Report due by:		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
1330	6/12/2023	S	1	BH06-8'	1								X				

Analysis and Method

Additional Instructions: Preserved on ice; please cc agiovengo and cburton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6-13-23	1000		6-13-23	1000
	6-13-23	1530		6-13-23	1700
	6-13-23	2245		6/14/23	7:35

Lab Use Only: Received on ice: (Y) / N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/14/2023 10:15:35AM

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 Production Company	Date Received:	06/14/23 07:35	Work Order ID:	E306107
Phone:	(575) 988-0055	Date Logged In:	06/13/23 16:37	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/20/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Corrected Project name per C. Burton 6/19/23 CM

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	Lab Use Only: Lab WO# E306107 / Job Number 23052-0001
Project: ~~Wood~~ Head Pad D	Attention: Matador Production Co	TAT: 1D / 2D / 3D / Standard: x
Project Manager: Ashley Giovengo	Address: On File	EPA Program: CWA / SDWA / RCRA
Address: 3122 National Parks Hwy	City, State, Zi _	State: NM X / CO / UT / AZ / TX
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	
Email: agiovengo@ensolum.com		
Report due by:		

Released to Imaging: 10/3/2023 8:15:22 AM

Received by OCD: 7/13/2023 12:00:15 AM

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
1330	6/12/2023	S	1	BH06-8'	1								X				

Analysis and Method

Additional Instructions: Preserved on ice, please cc agiovengo and cburton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6-13-23	1000		6-13-23	1000
	6-13-23	1530		6-13-23	1700
	6-13-23	2245		6/14/23	7:35

Lab Use Only: Received on ice: (Y) / N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

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

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

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

envirotech

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 Production Company

Project Name:	Wool Head Pad D
Work Order:	E306106
Job Number:	23052-0001
Received:	6/14/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/23

Date Reported: 6/19/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306106
Date Received: 6/14/2023 7:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2023 7:35:00AM, 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 13:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 - 7'	E306106-01A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:33:06PM

BH06 - 7'

E306106-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.4 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.3 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*85.6 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2324030
Chloride	**61.0**	20.0	1	06/14/23	06/15/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:33:06PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
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	*7.26*		*8.00*		*90.8*	*70-130*			
LCS (2324023-BS1)									Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.69	0.0250	5.00		93.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike (2324023-MS1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.61	0.0250	5.00	ND	92.2	54-133			
Ethylbenzene	4.58	0.0250	5.00	ND	91.6	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.3	63-131			
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.7*	*70-130*			
Matrix Spike Dup (2324023-MSD1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.54	0.0250	5.00	ND	90.9	54-133	1.40	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	1.05	20	
Toluene	4.65	0.0250	5.00	ND	93.0	61-130	1.23	20	
o-Xylene	4.64	0.0250	5.00	ND	92.7	63-131	0.569	20	
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131	1.13	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131	0.945	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:33:06PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.3*	*70-130*			
LCS (2324023-BS2)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			
Matrix Spike (2324023-MS2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike Dup (2324023-MSD2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	ND	91.5	70-130	4.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:33:06PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324031-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*34.5*		*50.0*		*69.1*	*50-200*			
LCS (2324031-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	246	25.0	250		98.5	38-132			
Surrogate: n-Nonane	*39.9*		*50.0*		*79.7*	*50-200*			
Matrix Spike (2324031-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	*34.2*		*50.0*		*68.4*	*50-200*			
Matrix Spike Dup (2324031-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	0.0430	20	
Surrogate: n-Nonane	*36.9*		*50.0*		*73.8*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:33:06PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324030-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	ND	20.0							
LCS (2324030-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2324030-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	276	20.0	250	23.0	101	80-120			
Matrix Spike Dup (2324030-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	278	20.0	250	23.0	102	80-120	0.843	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 Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 13:33

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

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	Lab Use Only: Lab WO# E300106 Job Number 23052-0001
Project: Wood Head Pad D	Attention: Matador Production Co	TAT: 1D 2D 3D Standard: x
Project Manager: Ashley Giovengo	Address: On File	EPA Program: CWA SDWA RCRA
Address: 3122 National Parks Hwy	City, State, Zi	State: NM CO UT AZ TX: NM X
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	
Email: agiovengo@ensolum.com		
Report due by:		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
1325	6/12/2023	S	1	BH06-7'	1						X		

Analysis and Method: TPH GRO/DRO/ORO by 8015; BTEX by 8021; VOC by 8260; Metals 6010; Chloride 300.0; BGDOC NM; GDOC TX

Additional Instructions: Preserved on ice; Please cc asiovengo and cburton @ onsolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6-13-23	1000	Michelle Gonzales	6-13-23	1000
Michelle Gonzales	6-13-23	1530	Andrew Murphy	6-13-23	1700
Andrew Murphy	6-13-23	2245	Faith Mann	10/14/23	7:35

Lab Use Only: Received on ice: (Y) / N; T1 ____ T2 ____ T3 ____; AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/14/2023 10:10:21AM

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 Production Company	Date Received:	06/14/23 07:35	Work Order ID:	E306106
Phone:	(575) 988-0055	Date Logged In:	06/13/23 16:35	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/20/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Corrected Project Name per. C. Burton 6/19/23

Project Information | Chain of Custody | Page 1 of 1

Wool

Client: Matador Production Company	Bill To	Lab Use Only
Project: ~~Wood~~ Head Pad D	Attention: Matador Production Co	Lab WO# E309106
Project Manager: Ashley Giovengo	Address: On File	Job Number 23052-0001
Address: 3122 National Parks Hwy	City, State, Zi _	
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	
Email: agiovengo@ensolum.com		
Report due by:		

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			x		
					RCRA

State					
NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC NM		GDOC TX		Remarks
1325	6/12/2023	S	1	BH06-7'	1								X				

Additional Instructions: Preserved on ice; Please cc agiovengo and cburton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6-13-23	1000		6-13-23	1000
	6-13-23	1530		6-13-23	1706
	6-13-23	2245		10/14/23	7:35

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

envirotech

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 Production Company

Project Name:	Wool Head Pad D
Work Order:	E306103
Job Number:	23052-0001
Received:	6/14/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/23

Date Reported: 6/19/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306103
Date Received: 6/14/2023 7:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2023 7:35:00AM, 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 14:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02 - 0'	E306103-01A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.
SS03 - 0'	E306103-02A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.
SS05A - 0'	E306103-03A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.
SS06B - 0.5'	E306103-04A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:39:45PM

SS02 - 0'

E306103-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.7 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.8 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*87.3 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2324030
Chloride	**23.0**	20.0	1	06/14/23	06/14/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:39:45PM

SS03 - 0'

E306103-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.3 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.2 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*82.5 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2324030
Chloride	**65.0**	20.0	1	06/14/23	06/14/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:39:45PM

SS05A - 0'

E306103-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.1 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.3 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*86.8 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS			Batch: 2324030
Chloride	**30.2**	20.0	1	06/14/23	06/14/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:39:45PM

SS06B - 0.5'

E306103-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.2 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.1 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	**81.0**	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	**88.5**	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*95.0 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2324030
Chloride	**269**	20.0	1	06/14/23	06/15/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:39:45PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
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	*7.26*		*8.00*		*90.8*	*70-130*			
LCS (2324023-BS1)									Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.69	0.0250	5.00		93.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike (2324023-MS1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.61	0.0250	5.00	ND	92.2	54-133			
Ethylbenzene	4.58	0.0250	5.00	ND	91.6	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.3	63-131			
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.7*	*70-130*			
Matrix Spike Dup (2324023-MSD1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.54	0.0250	5.00	ND	90.9	54-133	1.40	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	1.05	20	
Toluene	4.65	0.0250	5.00	ND	93.0	61-130	1.23	20	
o-Xylene	4.64	0.0250	5.00	ND	92.7	63-131	0.569	20	
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131	1.13	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131	0.945	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:39:45PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.3*	*70-130*			
LCS (2324023-BS2)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			
Matrix Spike (2324023-MS2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike Dup (2324023-MSD2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	ND	91.5	70-130	4.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:39:45PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324031-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*34.5*		*50.0*		*69.1*	*50-200*			
LCS (2324031-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	246	25.0	250		98.5	38-132			
Surrogate: n-Nonane	*39.9*		*50.0*		*79.7*	*50-200*			
Matrix Spike (2324031-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	*34.2*		*50.0*		*68.4*	*50-200*			
Matrix Spike Dup (2324031-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	0.0430	20	
Surrogate: n-Nonane	*36.9*		*50.0*		*73.8*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 2:39:45PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324030-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	ND	20.0							
LCS (2324030-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2324030-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	276	20.0	250	23.0	101	80-120			
Matrix Spike Dup (2324030-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	278	20.0	250	23.0	102	80-120	0.843	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 Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 14:39

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

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

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

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	Lab Use Only: Lab WO# E306103 / Job Number 23052-0001
Project: Wood Head Pad D	Attention: Matador Production Co	TAT: 1D / 2D / 3D / Standard: x
Project Manager: Ashley Giovengo	Address: On File	EPA Program: CWA / SDWA / RCRA
Address: 3122 National Parks Hwy	City, State, Zi _	State: NM X / CO / UT / AZ / TX
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	
Email: agiovengo@ensolum.com		
Report due by:		

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
1525	6/12/2023	S	1	SS02-0'	1						X		
1530	6/12/2023	S	1	SS03-0'	2						X		
1535	6/12/2023	S	1	SS05A-0'	3						X		
1540	6/12/2023	S	1	SS06B-0.5'	4						X		

Analysis and Method

Additional Instructions: Preserved on ice. Please cc agiovenso and cbarton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6-13-23	1000	Michelle Garcia	6-13-23	1000
Michelle Garcia	6-13-23	1530	[signature]	6-13-23	1700
[signature]	6-13-23	2245	Caitlin Man	6/14/23	7:39

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/14/2023 9:51:43AM

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 Production Company	Date Received:	06/14/23 07:35	Work Order ID:	E306103
Phone:	(575) 988-0055	Date Logged In:	06/13/23 16:25	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/20/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Corrected Project name per C. Burton 6/19/23 CM

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**	**Lab Use Only**
Project: ~~Wood~~ Head Pad D	Attention: Matador Production Co	Lab WO# E306103
Project Manager: Ashley Giovengo	Address: On File	Job Number 23052-0001
Address: 3122 National Parks Hwy	City, State, Zi _	
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	
Email: agiovengo@ensolum.com		
Report due by:		

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			x		
					RCRA

State: NM (X) | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
1525	6/12/2023	S	1	SS02-0'	1						X		
1530	6/12/2023	S	1	SS03-0'	2						X		
1535	6/12/2023	S	1	SS05A-0'	3						X		
1540	6/12/2023	S	1	SS06B-0.5'	4						X		

Analysis and Method

Additional Instructions: Preserved on ice. Please cc agiovengo and clbarton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	6-13-23	1000	Michelle Garcia	6-13-23	1000
Michelle Gonzales	6-13-23	1530	Andrew Moreno	6-13-23	1700
Andrew Moreno	6-13-23	2245	Caitlin Mars	06/14/23	7:39

Lab Use Only
Received on ice: (Y) N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

envirotech

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 Production Company

Project Name:	Wool Head Pad D
Work Order:	E306104
Job Number:	23052-0001
Received:	6/14/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
6/19/23

Date Reported: 6/19/23

Ashley Giovengo
3122 National Parks HWY
Carlsbad, NM 88220

Project Name: Wool Head Pad D
Workorder: E306104
Date Received: 6/14/2023 7:35:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/14/2023 7:35:00AM, 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

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 13:31

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 - 4'	E306104-01A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.
BH06 - 6'	E306104-02A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.
BH07 - 10'	E306104-03A	Soil	06/12/23	06/14/23	Glass Jar, 2 oz.

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:31:33PM

BH05 - 4'

E306104-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.1 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.8 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	**29.7**	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*98.1 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2324030
Chloride	**1410**	20.0	1	06/14/23	06/15/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:31:33PM

BH06 - 6'

E306104-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.0 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.7 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*104 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2324030
Chloride	**208**	20.0	1	06/14/23	06/15/23	

Sample Data

Matador Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:31:33PM

BH07 - 10'

E306104-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Benzene	ND	0.0250	1	06/14/23	06/14/23	
Ethylbenzene	ND	0.0250	1	06/14/23	06/14/23	
Toluene	ND	0.0250	1	06/14/23	06/14/23	
o-Xylene	ND	0.0250	1	06/14/23	06/14/23	
p,m-Xylene	ND	0.0500	1	06/14/23	06/14/23	
Total Xylenes	ND	0.0250	1	06/14/23	06/14/23	
Surrogate: 4-Bromochlorobenzene-PID		*94.6 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2324023
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/14/23	06/14/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.1 %*	*70-130*	*06/14/23*	*06/14/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2324031
Diesel Range Organics (C10-C28)	ND	25.0	1	06/14/23	06/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	06/14/23	06/15/23	
Surrogate: n-Nonane		*102 %*	*50-200*	*06/14/23*	*06/15/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2324030
Chloride	ND	20.0	1	06/14/23	06/15/23	

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:31:33PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
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	*7.26*		*8.00*		*90.8*	*70-130*			
LCS (2324023-BS1)									Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.69	0.0250	5.00		93.8	70-130			
Ethylbenzene	4.65	0.0250	5.00		92.9	70-130			
Toluene	4.80	0.0250	5.00		95.9	70-130			
o-Xylene	4.76	0.0250	5.00		95.2	70-130			
p,m-Xylene	9.45	0.0500	10.0		94.5	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.52*		*8.00*		*94.0*	*70-130*			
Matrix Spike (2324023-MS1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.61	0.0250	5.00	ND	92.2	54-133			
Ethylbenzene	4.58	0.0250	5.00	ND	91.6	61-133			
Toluene	4.71	0.0250	5.00	ND	94.2	61-130			
o-Xylene	4.66	0.0250	5.00	ND	93.3	63-131			
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.7*	*70-130*			
Matrix Spike Dup (2324023-MSD1)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Benzene	4.54	0.0250	5.00	ND	90.9	54-133	1.40	20	
Ethylbenzene	4.53	0.0250	5.00	ND	90.6	61-133	1.05	20	
Toluene	4.65	0.0250	5.00	ND	93.0	61-130	1.23	20	
o-Xylene	4.64	0.0250	5.00	ND	92.7	63-131	0.569	20	
p,m-Xylene	9.21	0.0500	10.0	ND	92.1	63-131	1.13	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.3	63-131	0.945	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:31:33PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324023-BLK1)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.46*		*8.00*		*93.3*	*70-130*			
LCS (2324023-BS2)									Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.3	20.0	50.0		96.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.59*		*8.00*		*94.9*	*70-130*			
Matrix Spike (2324023-MS2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	48.0	20.0	50.0	ND	95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.62*		*8.00*		*95.2*	*70-130*			
Matrix Spike Dup (2324023-MSD2)				**Source: E306100-01**					Prepared: 06/13/23 Analyzed: 06/14/23
Gasoline Range Organics (C6-C10)	45.8	20.0	50.0	ND	91.5	70-130	4.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.53*		*8.00*		*94.1*	*70-130*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:31:33PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324031-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*34.5*		*50.0*		*69.1*	*50-200*			
LCS (2324031-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	246	25.0	250		98.5	38-132			
Surrogate: n-Nonane	*39.9*		*50.0*		*79.7*	*50-200*			
Matrix Spike (2324031-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	93.0	38-132			
Surrogate: n-Nonane	*34.2*		*50.0*		*68.4*	*50-200*			
Matrix Spike Dup (2324031-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Diesel Range Organics (C10-C28)	232	25.0	250	ND	92.9	38-132	0.0430	20	
Surrogate: n-Nonane	*36.9*		*50.0*		*73.8*	*50-200*			

QC Summary Data

Matador Production Company	Project Name:	Wool Head Pad D	**Reported:**
3122 National Parks HWY	Project Number:	23052-0001	
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	6/19/2023 1:31:33PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2324030-BLK1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	ND	20.0							
LCS (2324030-BS1)									Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2324030-MS1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	276	20.0	250	23.0	101	80-120			
Matrix Spike Dup (2324030-MSD1)				**Source: E306103-01**					Prepared: 06/14/23 Analyzed: 06/14/23
Chloride	278	20.0	250	23.0	102	80-120	0.843	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 Production Company	Project Name:	Wool Head Pad D	
3122 National Parks HWY	Project Number:	23052-0001	**Reported:**
Carlsbad NM, 88220	Project Manager:	Ashley Giovengo	06/19/23 13:31

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.

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	**Bill To**
Project: Wood Head Pad D	Attention: Matador Production Co
Project Manager: Ashley Giovengo	Address: On File
Address: 3122 National Parks Hwy	City, State, Zi
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com
Email: agiovengo@ensolum.com	
Report due by:	

Lab Use Only		TAT				EPA Program	
Lab WO# E306104	Job Number 23052-0001	1D	2D	3D	Standard	CWA	SDWA
					x		
							RCRA

State					
NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
1230	6/12/2023	S	1	BH05-4'	1						X		
1320	6/12/2023	S	1	BH06-6'	2						X		
1100	6/12/2023	S	1	BH07-10'	3						X		

Additional Instructions: Preserved on ice; Please cc agiovengo and cburton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6-13-23	1000	[signature]	6-13-23	1000
[signature]	6-13-23	1530	[signature]	6-13-23	1200
[signature]	6-13-23	2245	[signature]	6/14/23	7:35

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 6/14/2023 10:02:44AM

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 Production Company	Date Received:	06/14/23 07:35	Work Order ID:	E306104
Phone:	(575) 988-0055	Date Logged In:	06/13/23 16:29	Logged In By:	Caitlin Mars
Email:	agiovngo@ensolum.com	Due Date:	06/20/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date

envirotech Inc.

Corrected Project Name per. C. Burton 6/19/23 AL

Project Information | Chain of Custody | Page 1 of 1

Client: Matador Production Company	Bill To	Lab Use Only
Project: ~~Wood~~ Head Pad D	Attention: Matador Production Co	Lab WO# E306104
Project Manager: Ashley Giovengo	Address: On File	Job Number 23052-0001
Address: 3122 National Parks Hwy	City, State, Zi	
City, State, Zip Carlsbad, NM 88220	Phone: 337-319-8398	
Phone: 575-988-0055	Email: clinton.talley@matadorresources.com	
Email: agiovengo@ensolum.com		
Report due by:		

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			x		
					RCRA

State: NM X | CO | UT | AZ | TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
1230	6/12/2023	S	1	BH05-4'	1						X		
1320	6/12/2023	S	1	BH06-6'	2						X		
1100	6/12/2023	S	1	BH07-10'	3						X		

Analysis and Method

Additional Instructions: Preserved on ice; Please cc agiovengo and cburton@ensolum.com on lab results

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	6-13-23	1000	[signature]	6/13/23	1000
[signature]	6-13-23	1530	[signature]	6-13-23	1700
[signature]	6-13-23	2245	[signature]	6/14/23	7:35

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

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

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

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

envirotech

ENSOLUM

APPENDIX F

Email Correspondence

From: Enviro, OCD, EMNRD
To: Ashley Giovengo
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] 48-hour Liner Inspection Notification - Matador Production Company - Wool Head Pad D - nAPP2312244897
Date: Friday, May 5, 2023 11:54:56 AM
Attachments: image006.png
image007.png
image008.png
image009.png

[**EXTERNAL EMAIL**]

Ashley,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon ● Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
http:// **www.emnrd.nm.gov**

From: Ashley Giovengo <agiovengo@ensolum.com>
Sent: Thursday, May 4, 2023 10:37 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Arsenio Jones <arsenio.jones@matadorresources.com>; clinton.talley@matadorresources.com
Subject: [EXTERNAL] 48-hour Liner Inspection Notification - Matador Production Company - Wool Head Pad D - nAPP2312244897

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

Hello,

We intend to perform a liner integrity inspection at Matador's Wool Head Pad D site (nAPP2312244897) on Tuesday, May 9, 2023, at 08:30 am MST.

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

Thanks,

Ashley Giovengo
Senior Engineer
575-988-0055
Ensolum, LLC

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

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

CONDITIONS

Action 238897

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 238897
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Deferral is approved. Remediation Due date will be left open until the site has a major facility deconstruction.	10/3/2023