# **E N S O L U M**

August 23, 2024

New Mexico Energy Minerals and Natural Resources Department New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

### Re: Closure Request AO 6 State Com TB Incident Number nAPP2413542400 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Matador Production Company (Matador), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities at the AO 6 State Com TB (Site). The Site is located in Unit P, Section 06, Township 22 South, Range 33 East, in Lea County, New Mexico (32.4164063°, -103.6039982°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO).

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 onto the well pad. Based on field observations, field screening activities, and soil sample laboratory analytical results, Matador is submitting this *Closure Request*, describing Site assessment, excavation, and delineation activities that have occurred and requesting no further action for Incident Number nAPP2413542400.

#### BACKGROUND

On May 13, 2024, a water transfer poly line failed, resulting in the release of approximately 165 barrels (bbls) of produced water onto the caliche pad and inside the lined secondary containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 65 bbls of released produced water were recovered from within the lined containment. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via web portal on May 14, 2024, and the release was subsequently assigned Incident Number nAPP2413542400. A liner integrity inspection was conducted by Ensolum personnel following fluid recovery and upon inspection, the liner was deemed insufficient and delineation beneath the lined containment would be required.

#### SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on the initial C-141 application subsection, Site Characterization. Potential Site receptors are identified on Figure 1.

AO 6 State Com TB

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The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, CP 01881 POD1, located approximately 0.49 miles north of the Site. The well had a reported depth to groundwater greater than 105 feet below ground surface (bgs) and a total depth of 105 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallower groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent dry wash, located approximately 861 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

#### SITE ASSESSMENT ACTIVITIES

On May 14, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix B.

#### DELINEATION AND LINER INTEGRITY INSPECTION

On May 23, 2024, Ensolum personnel were onsite to conduct lateral and vertical delineation sampling activities. Four delineation soil samples (SS01 through SS04) were collected from around the release extent at ground surface to assess the lateral extent of the release. Four boreholes (BH01 through BH04) were advanced via hand auger within the release extent to assess the vertical extent of release. Boreholes BH01 and BH04 were advanced to a depth of 2 feet bgs and boreholes BH02 and BH03 were advanced to a depth of 1-foot bgs. Two discrete delineation soil samples were collected from each borehole and field screened for chloride utilizing Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

On May 30, 2024, Ensolum personnel competent in conducting liner inspections, arrived onsite to visually inspect the integrity of the containment liner. Prior to conducting the inspection, NMOCD was provided with a 48-hour liner inspection notification via email on May 23, 2024. The liner was found to be insufficient during the inspection and as such, two boreholes, (BH05 and BH06), were advanced in the general vicinity of the damaged liner via hand auger. Boreholes BH05 and BH06 were advanced to

AO 6 State Com TB

a terminal depth of 2 feet bgs. Photographs taken during the liner inspection are included in Appendix B. The delineation soil sample locations are depicted on Figure 2.

Lateral delineation soil samples (SS01 through SS04) and discrete delineation soil samples from boreholes (BH01 through BH06) were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice and transported under strict chain-of-custody procedures to Envirotech Analysis Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

### **EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES**

Beginning on July 22, 2024, Ensolum personnel oversaw the excavation of impacted and wastecontaining soil from the on-pad release area. BDS Enterprises completed a surface scrape of the release area with a backhoe, hydrovac, and hand tools. The excavation occurred on the well pad on the west side of the lined secondary containment. To direct excavation activities, Ensolum personnel field screened soil samples for chloride utilizing Mohr method titration.

Following the removal of impacted and waste-containing soil, Ensolum personnel collected 5-point composite soil samples representing at least 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples (FS01 through FS55) were collected from the floor of the excavation at ground surface. Due to the shallow nature of the excavation, confirmation sidewall soil samples were incorporated into the excavation floor samples. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Ensolum personnel returned to the Site on August 9, 2024, to resample three confirmation floor samples (FS14@0', FS15@0' and FS16@0') that exceeded the Site Closure Criteria. A hydrovac was used to remove impacted soil in the confirmation sample areas due to the proximity of the sample areas to active production equipment. The final excavation extent measured approximately 10,865 square feet. A total of approximately 182 cubic yards of impacted and waste-containing soil was removed during the excavation activities. Impacted and waste-containing soil was transported and properly disposed of at the R360 Facility in Hobbs New Mexico.

### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for lateral delineation soil samples (SS01 through SS04), collected around the release extent, indicated all COC concentrations were compliant with Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results for the vertical delineation soil samples collected from boreholes BH01, BH04, and BH06 were all in compliance with Site Closure Criteria at 2 feet bgs. Laboratory analytical results from boreholes BH03 and BH05 indicated all COC concentrations were in compliance with the Site Closure Criteria at 2 feet bgs. Laboratory analytical results from boreholes BH03 and BH05 indicated all COC concentrations were in compliance with the Site Closure Criteria at depths ranging from ground surface to 1-foot bgs and all COCs were in compliance with the strictest Closure Criteria at 1-foot bgs. Laboratory analytical results from borehole BH02 indicated the chloride concentration exceeded the Site Closure Criteria at ground surface; however, all COCs were in compliance with the strictest Closure Criteria at 1-foot bgs.

Laboratory analytical results for excavation floor soil samples (FS01 through FS55) indicated all COC concentrations were compliant with the Site Closure Criteria at ground surface bgs except for FS14@0',

AO 6 State Com TB

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FS15@0' and FS16@0', which were resampled. Laboratory analytical results for confirmation floor samples FS14@0.5', FS15@0.5', and FS16@0' indicated COCs were all in compliance with the Site Closure Criteria. Laboratory analytical results are summarized in Tables 1 and 2 and the complete laboratory analytical reports are included as Appendix D.

### **CLOSURE REQUEST**

The release extent has been laterally defined to the strictest Closure Criteria per NMOCD Table I by delineation soil samples (SS01 through SS04), collected at ground surface, and vertically by boreholes (BH01, BH04 a BH06), collected at terminal depth of 2 feet bgs and by boreholes (BH02, BH03 and BH05) collected at a terminal depth of 1-foot bgs. Excavation of the impacted area on pad was completed, and excavation floor samples (FS01 through FS55), collected at ground surface, were all in compliance with the Site Closure Criteria.

Based on the remedial actions completed to date and a depth to groundwater greater than 105 feet bgs, Matador believes these remedial actions are protective of human health, the environment, and groundwater and as such, respectfully requests closure for Incident Number nAPP2413542400.

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 Scientist

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

Appendices:

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



# **FIGURES**

Received by OCD: 8/26/2024 2:52:38 PM

Page 6 of 211



#### Received by OCD: 8/26/2024 2:52:38 PM



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#### Received by OCD: 8/26/2024 2:52:38 PM



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# TABLES

# E N S O L U M

	TABLE 1   SOIL SAMPLE ANALYTICAL RESULTS   AO 6 State Com TB   Matador Production Company   Lea County, New Mexico													
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000				
				Delir	neation Soil Sam	ples	•							
SS01	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	49.3				
SS02	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	183				
SS03	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	190				
SS04	5/23/2024	0	<0.0250	<0.0500	<20.0	54.5	72.5	54.5	127	262				
BH01	5/23/2024	0	<0.0250	< 0.0500	<20.0	805	452	805	1,257	15,800				
BH01	5/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	38.6				
BH02	5/23/2024	0	<0.0250	<0.0500	<20.0	340	<50.0	340	340	27,600				
BH02	5/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	85.2				
BH03	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	14,400				
BH03	5/23/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	3,700				
BH04	5/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	2,460				
BH04	5/23/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	32.7				
BH05	5/30/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,210				
BH05	5/30/2024	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	244				
BH06	5/30/2024	0	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,190				
BH06	5/30/2024	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	72.8				

#### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
		· · · · ·		Confi	rmation Soil Sa	mples				
FS01	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,010
FS02	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	3,040
FS03	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,820
FS04	7/22/2024	0	<0.0250	<0.0500	<20.0	84.3	74	84.3	<50.0	5,480
FS05	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,300
FS06	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,200
FS07	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	2,350
FS08	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	6,940
FS09	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	11,300
FS10	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	17,700
FS11	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	13,600
FS12	7/23/2024	0	<0.0250	<0.0500	<20.0	41.5	<50.0	41.5	41.5	13,100
FS13	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	13,100
FS14	7/23/2024	0	<0.0250	<0.0500	<20.0	3,920	1,490	3,920	5,410	6,380
FS14	8/9/2024	0.5	<0.0250	<0.0500	<20.0	33.0	<50.0	<20.0	33.0	941
FS15	7/23/2024	0	<0.0250	0.0335	<20.0	4,010	1,480	4,010	5,490	7,800
FS15	8/9/2024	0.5	<0.0250	0.106	<20.0	92.9	<50.0	<20.0	92.9	2,610
FS16	7/23/2024	0	<0.0250	0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	20,900
FS16	8/9/2024	0	<0.0250	0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	4,100
FS17	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	11,000
FS18	7/23/2024	0	<0.0250	< 0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	14,500
FS19	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,440

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	TABLE 2 - CONT'D   SOIL SAMPLE ANALYTICAL RESULTS   AO 6 State Com TB   Matador Production Company   Lea County, New Mexico												
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)			
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000			
				Confi	irmation Soil Sar	nples							
FS20	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	13,300			
FS21	7/23/2024	0	<0.0250	<0.0500	<20.0	183	154	183	337	13,800			
FS22	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,020			
FS23	7/23/2024	0	<0.0250	<0.0500	<20.0	69.8	<50.0	69.8	69.8	5,760			
FS24	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,860			
FS25	7/23/2024	0	<0.0250	<0.0500	<20.0	65.5	<50.0	65.5	65.5	9,100			
FS26	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,600			
FS27	7/23/2024	0	<0.0250	<0.0500	<20.0	25.8	<50.0	25.8	25.8	11,700			
FS28	7/23/2024	0	<0.0250	<0.0500	<20.0	71.0	<50.0	71.0	71.0	11,500			
FS29	7/23/2024	0	<0.0250	<0.0500	<20.0	121	55.6	121	177	11,200			
FS29	7/23/2024	0	<0.0250	<0.0500	<20.0	121	55.6	121	177	11,200			
FS30	7/23/2024	0	<0.0250	<0.0500	<20.0	29	<50.0	29.0	29.0	16,300			
FS31	7/22/2024	0	<0.0250	<0.0500	<20.0	36.9	<50.0	36.9	36.9	7,660			
FS32	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,240			
FS33	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,540			
FS34	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,440			
FS35	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,730			
FS36	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	1,910			
FS37	7/22/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,300			
FS38	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	11,800			
FS39	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	11,400			
FS40	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,380			

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	TABLE 2 - CONT'D   SOIL SAMPLE ANALYTICAL RESULTS   AO 6 State Com TB   Matador Production Company   Lea County, New Mexico													
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)				
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000				
				Conf	irmation Soil Sar	nples								
FS41	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,560				
FS42	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,670				
FS43	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,520				
FS44	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,690				
FS45	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,930				
FS46	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,400				
FS47	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	5,630				
FS48	7/23/2024	0	<0.0250	<0.0500	<20.0	28.1	<50.0	28.1	28.1	7,730				
FS49	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	7,730				
FS50	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	1,870				
FS52	7/23/2024	0	<0.0250	<0.0500	<20.0	29.8	<50.0	29.8	29.8	10,000				
FS52	7/23/2024	0	<0.0250	<0.0500	<20.0	29.8	<50.0	29.8	29.8	10,000				
FS53	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	10,200				
FS54	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	9,350				
FS55	7/23/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<20.0	<50.0	8,830				

#### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



### APPENDIX A

Referenced Well Records



### WELL RECORD & LOG

### **OFFICE OF THE STATE ENGINEER**

www.ose.state.nm.us

NO	OSE POD NO POD1 (T	-	N <b>O</b> .)				WELL TAG II n/a	D NO.			OSE FILE NO( CP-1881	s).			
OCATI	WELL OWN			ners			<u>.</u>				PHONE (OPTI) 832.672.470				
MELL I	well own 11490 Wes				50						CITY Houston		state TX	77077	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO	~	ATT	TUDE		GREES 32	MINUTES 25	SEC	CONDS 22	N		REQUIRED: ONE TEN QUIRED: WGS 84	TH OF A	SECOND	
NEH	(FROM GP			ITUDE		103	36		12	W					
1. GE	DESCRIPTION NE SE NE					STREET ADD	RESS AND COM	IMON LANI	OMARKS -	– PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVA	AILABLE	
	LICENSE NO 124			NAME OF	LICENSED		Jackie D. At	kins				NAME OF WELL DR Atkins Eng		COMPANY 3 Associates,	Inc.
	DRILLING S 10/12/			DRILLING 10/12			DMPLETED WEI rary well ma		BOR		le depth (ft) 105	DEPTH WATER FIR	ST ENCO n/a	•	)
Z	COMPLETE	D WELL IS	S:	🗍 ART	ESIAN	I DRY HO	LE 🗍 SHA	ALLOW (UN	CONFINE	ED)		STATIC WATER LEV	/EL IN C n/a		ELL (FT)
DITA	DRILLING F	LUID:		🗍 AIR		MUD	ADI	DITIVES – S	PECIFY:			•			
RM	DRILLING M	ETHOD:		🔲 ROT.	ARY	HAMME	R 🗌 CAE	BLE TOOL	Ø	OTHE	R – SPECIFY:	Hollo	w Sten	n Auger	
INFC	DEPTH	(feet bgl)	)	BOR	E HOLE	CASING	MATERIAL	AND/OR			ASING	CASING	CAS	ING WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM	то	)	_	DIAM nches)	GRADE CASING (include each casing string, and note sections of screen) (add coupling diameter)			INSIDE DIAM. (inches)		ICKNESS (inches)	SIZE (inches)			
& C	0	105	;	:	±6.5		Boring- HSA								
'ING							· · · · · · · · · · · · · · · · · · ·						ļ		
SILL					· · · ·										
2. DI															
				<u> </u>								092.00	<u>1017</u>	2021 AMS	4
-	DEPTH	(feet bgl)	)		E HOLE		IST ANNULA					AMOUNT		METHO	
IAI	FROM	то	)	DIAM	I. (inches)	GRA	VEL PACK S	SIZE-RAN	GE BY I	INTE	RVAL	(cubic feet)		PLACE	MENT
TEI				<u> </u>											
t MA	ļ														
LAF															
ANNULAR MATERIAL	· · · · · · · · · · · · · · · · · · ·														
3. AI				1					· · ·						
FOR	OSE INTER	NAL US	SE	•							WR-2	0 WELL RECORD	& LOG	(Version 06/	30/17)
	E NO. C	P-		561	}		POI	D NO.	1		TRN 1	1 787	67	5	
LOC	ATION				225	336	$\Xi \cdot \ell_{\theta} \cdot \overline{d}$	242			WELL TAG I	D NO.		PAGE	1 OF 2

•

	DEPTH (i FROM	eet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIAL EN R-BEARING CAVITIES OI plemental sheets to fully de	R FRAC	TURE ZONES	5	WAT BEAR (YES)	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	14	14	Sand, fine-	grained, poorly graded with	Caliche,	Brown		Y	√ N	
	14	19	5	Caliche, co	onsolidated with fin-grained s	and, Wh	nite/Tan		Y	√ N	
	19	24	5		ned, poorly graded with Cali				Y	<b>√</b> N	· · · · · · · · · · · · · · · · · · ·
	24	44	20		ained, poorly graded with cla	-			Y	√ N	
	44	64	20		grained, poorly graded with c				Y	√ N	
	64	105	41		e-grained, poorly graded with				Y	√ N	
HYDROGEOLOGIC LOG OF WELL					· granta, point granta in-	,			Y	N	
JF W			· <u></u>	· · · · · · · · · · · · · · · · · · ·					- Y	N	
0 00									Y	N	
СГС									Y	N	
DOGI										N	
SOL(										N	
OGI											
(DR										N	
4. HY									Y	N	
•							<u> </u>		Y	N	
					· · · · · · ·				Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARING	G STRATA:				AL ESTIM		:
		? 🗌 A	IR LIFT	]BAILER OT	HER – SPECIFY:			WEL	L YIELD	) (gpm):	0.00
ION	WELL TES				A COLLECTED DURING VIOWING DISCHARGE AN						
<b>RVIS</b>	MISCELLA	NEOUS INF	ORMATION: TO	emporary well materia	als removed and the soil b	oring b	ackfilled usir	ng drill	cuttings	from to	tal depth to ten
JPEI			fe	et below ground surfa	ce, then hydrated bentoni	te chips	from ten fee	t below	w ground	l surface	to surface.
TEST; RIG SUPERVIS								USE	OH NO	j 2 202	1 mg:14
LESI	PRINT NAM	fE(S) OF DI	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPERVIS	SION OI	F WELL CON	STRUC	CTION O	THER TH	IAN LICENSEE:
5.1			lo Trevino, Can								
SIGNATURE	CORRECT I	ECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO ID THAT HE OR SHE WILL PLETION OF WELL DRILL	L FILE :					
6. SIGN	Jack A	tkins		Jac	ckie D. Atkins				10/27	7/2021	
ę		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	NAME					DATE	
							ND 44				
	E OSE INTERI E NO.	NAL USE			POD NO.		WR-20 WE	LL REC	CORD &	LOG (Ve	rsion 06/30/2017)
	CATION					WETT					PAGE 2 OF 2
						WELL	TAG ID NO.				



### APPENDIX B

Photographic Log













APPENDIX C

Lithologic Soil Sampling Logs

						Sample Name: BH01	Date: 5/23/2024
		C			R A	Site Name: AO 6 State Com TB	
	ΕΝ	3				Incident Number: nAPP241354240	00
						Job Number: 03A2270048	
L	ITHOLOGI	C / SOIL S	SAMPLING	6 LOG		Logged By: Kaoru Shimada	Method: Hand Auger
Coordinates: 32.4						Hole Diameter: 3"	Total Depth: 2'
Comments: Field performed with :						PID for chloride and vapor, respect factors included.	ively. Chloride test
Moisture Content Chloride (ppm)	Vapor (ppm) Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	
D	Y	BH01	0	0	CCHE	Caliche Pad - Very light brown to white size with some small	
D 1,546	N	BH01	1	- 1	SC	Clayey Sand w/ some Gravel - Light b some small to large gravel, Low-Plasti Non-Unife	city, Noncohesive, Dry, Massive,
D ND	Ν	BH01	2	2	SC	Clayey Sand w/ trace Gravel - Light b trace small to large gravel, Low-Plastic Non-Unife	city, Noncohesive, Dry, Massive,

			Sample Name: BH02	Date: 5/23/2024
	N S O L		Site Name: AO 6 State Com TB	
	NJUL		Incident Number: nAPP241354240	00
			Job Number: 03A2270048	
LITHO	OGIC / SOIL SAMPLING L	OG	Logged By: Kaoru Shimada	Method: Hand Auger
Coordinates: 32.416224			Hole Diameter: 3"	Total Depth: 2'
	ing conducted with HACH Chlor tion factor of soil to distilled wa		l PID for chloride and vapor, respect factors included.	ively. Chloride test
Moisture Content Chloride (ppm) Vapor (ppm)		Depth S/Wpol (ft bgs)		
D	Y BH02 0 <u>II</u>	0 CCHE	Caliche Pad - Very light brown to white size with some small	
D ND	N BH02 1 -	1 SC	Clayey Sand w/ some Gravel - Brown, small to large gravel, Low-Plasticity, N Uniforn	oncohesive, Dry, Massive, Non-
	 To	otal Depth at 1	foot bgs.	

		Sample N	ame: BH03	Date: 5/23/2024
	NSOLU	Site Name	e: AO 6 State Com TB	
		Incident N	lumber: nAPP2413542400	)
		Job Numb	oer: 03A2270048	
LITHOLO	DGIC / SOIL SAMPLING LOG	Logged B	/: Kaoru Shimada	Method: Hand Auger
Coordinates: 32.416084,		Hole Diar		Total Depth: 2'
	ng conducted with HACH Chloride Test S on factor of soil to distilled water. No c			vely. Chloride test
Moisture Content Chloride (ppm) Vapor (ppm)	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithologic Desc	
D	BH03 0 <u>II</u> 0	CCHE Caliche Pa	d - Very light brown to white, size with some small t	maostly fien to very fine grain o large gravel
D >3,617	BH03 1 1			own, very fine to fine grain w/ ty, Noncohesive, Dry, Massive, m
	Total Der	th at 1 foot bgs.		

				Sample Name: BH04	Date: 5/23/2024
			R A	Site Name: AO 6 State Com TB	•
	IN J	OLU		Incident Number: nAPP24135424	00
				Job Number: 03A2270048	
LITHC	DLOGIC / SOIL	SAMPLING LOG		Logged By: Kaoru Shimada	Method: Hand Auger
Coordinates: 32.41612	18, -103.603789			Hole Diameter: 3"	Total Depth: 2'
		with HACH Chloride Test il to distilled water. No c		PID for chloride and vapor, respect factors included.	tively. Chloride test
Moisture Content Chloride (ppm) Vapor	S SS	Sample Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	
D	Y BH04		CCHE	Caliche Pad - Very light brown to whit size with some small	
D 2,520	N BH04		SC	Clayey Sand w/ some Gravel - Brown small to large gravel, Low-Plasticity, N Uniforr	loncohesive, Dry, Massive, Non-
D ND	N BH04	2 2 2	SC	Clayey Sand w/ trace Gravel - Dark b trace small to large gravel, Medium Massive, Non-	-Plasticity, Noncohesive, Dry,

					Sample Name: BH05	Date: 5/30/24					
				R A							
	NS		. U		Incident Number: nAPP2413542400						
					Job Number: 03A2270048						
LITHOL	OGIC / SOIL S	SAMPLING	LOG		Logged By: Israel Estrella	Method: Hand Auger					
Coordinates: 32.41521,	-103.60365				Hole Diameter: 3"	Total Depth: 2'					
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content Chloride (ppm) Vapor (ppm)	Staining Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	Description					
М	N BH01	0	0	SP-SM	Moist, Red Sand, No Stain	ing					
		+									
M 274	N BH01	1	1	SP-SM	Moist, Red Sand, No Stain	ing					
M ND	N BH01	2	2	SP-SM	Moist, Red Sand, No Stain	ing					
		<u> </u>	Total	Depth (							

Ste Name: A0 6 State Com T8   Incident Number: naP2P413542400   Job Number: naP4P413542400   Job Number: naP4413542400   Job Number: naP44134   Job Number: naP4414   Job Number: naP4414   Job Number: naP4414   Job Number: naP4414		_							Sample Name: BH06	Date: 5/30/24			
Index to the construction of the constructi				N	C				Site Name: AO 6 State Com TB	•			
Job Number: 03A2270048   LITHOLOGIC / SOIL SAMPLING LOG Logged By: Israel Estrella Method: Hand Auger   Coordinates: 32.41620, -103.60387 Hole Diameter: 3" Total Depth: 2'   Coordinates: 32.41620, -103.60387 Hole Diameter: 3" Total Depth: 2'   Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   antiging of the set o					3				Incident Number: nAPP2413542400				
Coordinates: 32.41620, -103.60387 Total Depth: 2'   Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   M total Depth   Open total open topen total open total open total open t													
Coordinates: 32.41620, -103.60387 Total Depth: 2'   Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   any tig application of the performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   Mile Diameter: 3" Total Depth: 2'   Open of the performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   Mile Diameter: 3" Total Depth: 2'   Open of the performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   Mile Diameter: 3" Lithologic Description   Mile Diameter: 3" Total Depth: 2'   Open factor of soil to distilled water. No correction factors included.   Mile Diameter: 3" Lithologic Description   Mile Diameter: 3" Lithologic Description   Mile Diameter: 3" Lithologic Description   Mile Diameter: 3" Depth (ft bgs) S   Mile Diameter: 3" Lithologic Description <th colspa<="" td=""><td></td><td></td><td>LITHOL</td><td>OGI</td><td></td><td>SAMPLING</td><td>i log</td><td></td><td>Logged By: Israel Estrella</td><td>Method: Hand Auger</td></th>	<td></td> <td></td> <td>LITHOL</td> <td>OGI</td> <td></td> <td>SAMPLING</td> <td>i log</td> <td></td> <td>Logged By: Israel Estrella</td> <td>Method: Hand Auger</td>			LITHOL	OGI		SAMPLING	i log		Logged By: Israel Estrella	Method: Hand Auger		
performed with 1:4 dilution factor of soil to distilled water. No correction factors included.   any tip of W b of W C Sample Depth (ft bgs) Depth (ft bgs) Y O Lithologic Description   M V	Coord	inates: 32	2.41620, •	-103.	60387					Total Depth: 2'			
M N BH02 III O SP-SM Moist, Red Sand, No Staining   M 2,055 N BH02 1 1 SP-SM Moist, Red Sand, No Staining   M 2,055 N BH02 1 1 SP-SM Moist, Red Sand, No Staining   M ND N BH02 2 2 SP-SM Moist, Red Sand, No Staining													
M 2,055 N BH02 1 1 SP-SM Moist, Red Sand, No Staining   M ND N BH02 2 2 SP-SM Moist, Red Sand, No Staining	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Depth	-	USCS/Rock Symbol	Lithologic D	Description			
M ND N BH02 2 2 SP-SM Moist, Red Sand, No Staining	М			Ν	BH02	<u> </u>	0	SP-SM	Moist, Red Sand, No Stain	ing			
M ND N BH02 2 2 SP-SM Moist, Red Sand, No Staining						-	-						
	М	2,055		Ν	BH02	1	1	SP-SM	Moist, Red Sand, No Stain	ing			
						_	-						
Total Depth @ 2'	М	ND		Ν	BH02	2	2			ing			
							Tota	Depth (	<u>م</u> 2'				
				*									
	$\checkmark$												



### APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

### **Analytical Report**

Matador Resources, LLC.

Project Name: AC

AO 6 State TB

Work Order: E405366

Job Number: 23003-0002

Received: 5/28/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/7/24

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: 6/7/24

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

Project Name: AO 6 State TB Workorder: E405366 Date Received: 5/28/2024 10:00:41AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/28/2024 10:00:41AM, under the Project Name: AO 6 State TB.

The analytical test results summarized in this report with the Project Name: AO 6 State TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Released to Imaging: 8/28/2024 3:59:54 PM

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

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com







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### Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
SS01 - 0'	5
SS02 - 0'	6
SS03 - 0'	7
SS04 - 0'	8
BH01 - 0'	9
BH01 - 2'	10
BH02 - 0'	11
BH02 - 1'	12
BH03 - 0'	13
BH03 - 1'	14
BH04 - 0'	15
BH04 - 2'	16
QC Summary Data	17
QC - Volatile Organic Compounds by EPA 8260B	17
QC - Nonhalogenated Organics by EPA 8015D - GRO	18
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	19
QC - Anions by EPA 300.0/9056A	20
Definitions and Notes	21
Chain of Custody etc.	22

### Received by OCD: 8/26/2024 2:52:38 PM

### Sample Summary

### Page 34 of 211

		sample sum	mary			
Matador Resources, LLC.	Project Name:	AO 6 State TB		Reported:		
5400 LBJ Freeway, Suite 1500		Project Number:	23003-0002			
Dallas TX, 75240		Project Manager:	Ashley Giovengo		06/07/24 09:49	
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
SS01 - 0'	E405366-01A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
SS02 - 0'	E405366-02A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
SS03 - 0'	E405366-03A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
SS04 - 0'	E405366-04A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
3H01 - 0'	E405366-05A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
BH01 - 2'	E405366-06A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
BH02 - 0'	E405366-07A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
BH02 - 1'	E405366-08A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
BH03 - 0'	E405366-09A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
BH03 - 1'	E405366-10A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
3H04 - 0'	E405366-11A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	
3H04 - 2'	E405366-12A	Soil	05/23/24	05/28/24	Glass Jar, 2 oz.	



.

		ampic D					
Matador Resources, LLC.	Project Name		6 State TB				
5400 LBJ Freeway, Suite 1500	Project Numb		)3-0002				<b>Reported:</b> 6/7/2024 9:49:02AM
Dallas TX, 75240	Project Manag	ger: Asn	ley Gioven	go			0///2024 9:49:02AM
		SS01 - 0'					
		E405366-01					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2422093
Benzene	ND	0.0250		1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24	
Toluene	ND	0.0250		1	05/30/24	06/05/24	
p-Xylene	ND	0.0250		1	05/30/24	06/05/24	
o,m-Xylene	ND	0.0500		1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		101 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: RKS			Batch: 2422093	
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		101 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0		1	06/04/24	06/05/24	
Dil Range Organics (C28-C36)	ND	50.0		1	06/04/24	06/05/24	
Surrogate: n-Nonane		106 %	50-200		06/04/24	06/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2423010
Chloride	49.3	20.0		1	06/03/24	06/03/24	

### Sample Data



.

### *Received by OCD: 8/26/2024 2:52:38 PM*

	S	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numl Project Mana	ber: 2300	6 State TB 03-0002 ley Giover				<b>Reported:</b> 6/7/2024 9:49:02AM
		SS02 - 0'					
		E405366-02					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Benzene	ND	0.0250		1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24	
Toluene	ND	0.0250		1	05/30/24	06/05/24	
o-Xylene	ND	0.0250		1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500		1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		99.8 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: RKS			Batch: 2422093	
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		101 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		99.8 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	mg/kg Analyst: NV		: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0		1	06/04/24	06/05/24	
Oil Range Organics (C28-C36)	ND	50.0		1	06/04/24	06/05/24	
Surrogate: n-Nonane		109 %	50-200		06/04/24	06/05/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	mg/kg Analyst: WF		Batch: 2423010		
Chloride	183	20.0		1	06/03/24	06/03/24	
	S	Sample D	ata				
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Matador Resources, LLC.	Project Nam		6 State TB				
5400 LBJ Freeway, Suite 1500	Project Num		03-0002		Reported:		
Dallas TX, 75240	Project Mana	ager: Ash	ley Gioveng	0		6/7/2024 9:49:02AM	
		SS03 - 0'					
		E405366-03					
		Reporting					
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2422093	
Benzene	ND	0.0250	1	05/30/24	06/05/24		
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24		
Foluene	ND	0.0250	1	05/30/24	06/05/24		
o-Xylene	ND	0.0250	1	05/30/24	06/05/24		
o,m-Xylene	ND	0.0500	1	05/30/24	06/05/24		
Fotal Xylenes	ND	0.0250	1	05/30/24	06/05/24		
Surrogate: Bromofluorobenzene		102 %	70-130	05/30/24	06/05/24		
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	05/30/24	06/05/24		
Surrogate: Toluene-d8		98.8 %	70-130	05/30/24	06/05/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2422093	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24		
Surrogate: Bromofluorobenzene		102 %	70-130	05/30/24	06/05/24		
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	05/30/24	06/05/24		
Surrogate: Toluene-d8		98.8 %	70-130	05/30/24	06/05/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORC	) mg/kg	mg/kg	A	Analyst: NV		Batch: 2423032	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24		
Dil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24		
Surrogate: n-Nonane		106 %	50-200	06/04/24	06/06/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: WF		Batch: 2423010	
Chloride	190	20.0	1	06/03/24	06/03/24		

	S	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	ber: 2300	6 State TB 03-0002 ley Gioven				<b>Reported:</b> 6/7/2024 9:49:02AM
		SS04 - 0'					
		E405366-04					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2422093
Benzene	ND	0.0250		1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24	
Toluene	ND	0.0250		1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	0.0250 1		05/30/24	06/05/24	
p,m-Xylene	ND	0.0500		1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	0.0250		05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		108 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		102 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		108 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		102 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2423032
Diesel Range Organics (C10-C28)	54.5	25.0		1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	72.5	50.0		1	06/04/24	06/06/24	
Surrogate: n-Nonane		106 %	50-200		06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	WF		Batch: 2423010
Chloride	262	20.0		1	06/03/24	06/03/24	

	50	imple D	ala						
Matador Resources, LLC.	Project Name:		6 State TB				Reported.		
5400 LBJ Freeway, Suite 1500	Project Numbe		03-0002	Reported:					
Dallas TX, 75240	Project Manag	er: Ash	ey Gioven	go			6/7/2024 9:49:02AM		
		BH01 - 0'							
	]	E405366-05							
		Reporting							
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2422093		
Benzene	ND	0.0250		1	05/30/24	06/05/24			
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24			
Toluene	ND	0.0250		1	05/30/24	06/05/24			
o-Xylene	ND	0.0250		1	05/30/24	06/05/24			
,m-Xylene	ND	0.0500		1	05/30/24	06/05/24			
Total Xylenes	ND	0.0250		1	05/30/24	06/05/24			
Surrogate: Bromofluorobenzene		102 %	70-130		05/30/24	06/05/24			
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		05/30/24	06/05/24			
urrogate: Toluene-d8		99.7 %	70-130		05/30/24	06/05/24			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2422093		
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24			
Surrogate: Bromofluorobenzene		102 %	70-130		05/30/24	06/05/24			
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		05/30/24	06/05/24			
urrogate: Toluene-d8		99.7 %	70-130		05/30/24	06/05/24			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2423032		
Diesel Range Organics (C10-C28)	805	125		5	06/04/24	06/06/24			
Dil Range Organics (C28-C36)	452	250		5	06/04/24	06/06/24			
Surrogate: n-Nonane		104 %	50-200		06/04/24	06/06/24			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	WF		Batch: 2423010		
Chloride	15800	400	2	20	06/03/24	06/03/24			



	S	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		6 State TE )3-0002		Reported:		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giover	ngo			6/7/2024 9:49:02AM
		BH01 - 2'					
		E405366-06					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Benzene	ND	0.0250		1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24	
Toluene	ND	0.0250		1	05/30/24	06/05/24	
p-Xylene	ND	0.0250		1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500		1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		98.3 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		98.3 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0		1	06/04/24	06/06/24	
Dil Range Organics (C28-C36)	ND	50.0		1	06/04/24	06/06/24	
Surrogate: n-Nonane		109 %	50-200		06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2423010
Chloride	38.6	20.0		1	06/03/24	06/03/24	



Sample Data											
Matador Resources, LLC.	Project Name	e: AO	6 State TB								
5400 LBJ Freeway, Suite 1500	Project Num	ber: 2300	03-0002	Reported:							
Dallas TX, 75240	Project Mana	ager: Ash	ley Giovengo	)		6/7/2024 9:49:02AM					
		BH02 - 0'									
		E405366-07									
		Reporting									
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes					
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2422093					
Benzene	ND	0.0250	1	05/30/24	06/05/24						
Ethylbenzene	ND	0.0250	1	05/30/24	06/05/24						
Toluene	ND	0.0250	1	05/30/24	06/05/24						
p-Xylene	ND	0.0250	1	05/30/24	06/05/24						
o,m-Xylene	ND	0.0500	1	05/30/24	06/05/24						
Total Xylenes	ND	0.0250	1	05/30/24	06/05/24						
Surrogate: Bromofluorobenzene		103 %	70-130	05/30/24	06/05/24						
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	05/30/24	06/05/24						
Surrogate: Toluene-d8		99.5 %	70-130	05/30/24	06/05/24						
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: RKS		Batch: 2422093					
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/30/24	06/05/24						
Surrogate: Bromofluorobenzene		103 %	70-130	05/30/24	06/05/24						
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	05/30/24	06/05/24						
Surrogate: Toluene-d8		99.5 %	70-130	05/30/24	06/05/24						
Nonhalogenated Organics by EPA 8015D - DRO/ORO	) mg/kg	mg/kg	A	nalyst: NV		Batch: 2423032					
Diesel Range Organics (C10-C28)	340	250	10	06/04/24	06/06/24						
Dil Range Organics (C28-C36)	ND	500	10	06/04/24	06/06/24						
Surrogate: n-Nonane		102 %	50-200	06/04/24	06/06/24						
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: WF		Batch: 2423010					
Chloride	27600	1000	50	06/03/24	06/03/24						

	S	ample D	ata				
Matador Resources, LLC.	Project Name	e: AO	AO 6 State TB				
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 2300	03-0002	Reported:			
Dallas TX, 75240	Project Mana	ger: Ash	ley Giover	ngo			6/7/2024 9:49:02AM
		BH02 - 1'					
		E405366-08					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Benzene	ND	0.0250		1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24	
Toluene	ND	0.0250		1	05/30/24	06/05/24	
o-Xylene	ND	0.0250	0.0250 1		05/30/24	06/05/24	
p,m-Xylene	ND	ND 0.0500		1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	0.0250 1		05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		101 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		101 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0		1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0		1	06/04/24	06/06/24	
Surrogate: n-Nonane		112 %	50-200		06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2423010
Chloride	85.2	20.0		1	06/03/24	06/03/24	



	Da	mple D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number Project Manage	: 2300	6 State TB )3-0002 ley Gioven				<b>Reported:</b> 6/7/2024 9:49:02AM
	]	BH03 - 0'					
	ŀ	405366-09					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Benzene	ND	0.0250		1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24	
Toluene	ND	0.0250		1	05/30/24	06/05/24	
p-Xylene	ND	0.0250		1	05/30/24	06/05/24	
p,m-Xylene	ND	0.0500		1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		101 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		103 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		101 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0		1	06/04/24	06/06/24	
Dil Range Organics (C28-C36)	ND	50.0		1	06/04/24	06/06/24	
Surrogate: n-Nonane		111 %	50-200		06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2423010
Chloride	14400	200		10	06/03/24	06/03/24	



Sample Data										
Matador Resources, LLC.	Project Name:		6 State TE	3						
5400 LBJ Freeway, Suite 1500	Project Numb		03-0002		Reported:					
Dallas TX, 75240	Project Manag	ger: Ash	ley Giover	ngo			6/7/2024 9:49:02AM			
		BH03 - 1'								
		E405366-10								
		Reporting								
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes			
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2422093			
Benzene	ND	0.0250		1	05/30/24	06/05/24				
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24				
Toluene	ND	0.0250		1	05/30/24	06/05/24				
p-Xylene	ND	0.0250		1	05/30/24	06/05/24				
p,m-Xylene	ND	0.0500		1	05/30/24	06/05/24				
Total Xylenes	ND	0.0250		1	05/30/24	06/05/24				
Surrogate: Bromofluorobenzene		102 %	70-130		05/30/24	06/05/24				
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		05/30/24	06/05/24				
Surrogate: Toluene-d8		99.5 %	70-130		05/30/24	06/05/24				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2422093			
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24				
Surrogate: Bromofluorobenzene		102 %	70-130		05/30/24	06/05/24				
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		05/30/24	06/05/24				
Surrogate: Toluene-d8		99.5 %	70-130		05/30/24	06/05/24				
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV			Batch: 2423032			
Diesel Range Organics (C10-C28)	ND	25.0		1	06/04/24	06/06/24				
Oil Range Organics (C28-C36)	ND	50.0		1	06/04/24	06/06/24				
Surrogate: n-Nonane		114 %	50-200		06/04/24	06/06/24				
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	WF		Batch: 2423010			
Chloride	3700	40.0		2	06/03/24	06/03/24				



	S	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	6 State TB 03-0002 ley Gioven				<b>Reported:</b> 6/7/2024 9:49:02AM
		BH04 - 0'					
		E405366-11					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Benzene	ND	0.0250		1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24	
Toluene	ND	0.0250		1	05/30/24	06/05/24	
o-Xylene	ND	0.0250		1	05/30/24	06/05/24	
o,m-Xylene	ND	0.0500		1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250	0.0250		05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		05/30/24	06/05/24	
urrogate: Toluene-d8		101 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		102 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		93.6 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		101 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0		1	06/04/24	06/06/24	
Dil Range Organics (C28-C36)	ND	50.0		1	06/04/24	06/06/24	
urrogate: n-Nonane		114 %	50-200		06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: WF		Batch: 2423010
Chloride	2460	40.0	40.0 2 06/03/24 06/03/24				

	S	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	ber: 2300	6 State TE 03-0002 ey Giover				<b>Reported:</b> 6/7/2024 9:49:02AM
		BH04 - 2'					
		E405366-12					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	RKS		Batch: 2422093
Benzene	ND	0.0250		1	05/30/24	06/05/24	
Ethylbenzene	ND	0.0250		1	05/30/24	06/05/24	
Toluene	ND	0.0250		1	05/30/24	06/05/24	
o-Xylene	ND	0.0250		1	05/30/24	06/05/24	
,m-Xylene	ND	0.0500		1	05/30/24	06/05/24	
Total Xylenes	ND	0.0250		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		99.6 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	RKS		Batch: 2422093
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/30/24	06/05/24	
Surrogate: Bromofluorobenzene		104 %	70-130		05/30/24	06/05/24	
Surrogate: 1,2-Dichloroethane-d4		95.7 %	70-130		05/30/24	06/05/24	
Surrogate: Toluene-d8		99.6 %	70-130		05/30/24	06/05/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2423032
Diesel Range Organics (C10-C28)	ND	25.0		1	06/04/24	06/06/24	
Dil Range Organics (C28-C36)	ND	50.0		1	06/04/24	06/06/24	
urrogate: n-Nonane		109 %	50-200		06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	WF		Batch: 2423010
Chloride	32.7	20.0		1	06/03/24	06/03/24	

## QC Summary Data

		<b>x</b> 0 00		ily Data					
Matador Resources, LLC.		Project Name:		O 6 State TB					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	003-0002					
Dallas TX, 75240		Project Manager:	As	shley Giovengo					6/7/2024 9:49:02AM
	V	olatile Organic	Compo	unds by EPA	8260H	3			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2422093-BLK1)						]	Prepared: 0	5/30/24 A	nalyzed: 06/05/24
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	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130			
LCS (2422093-BS1)						]	Prepared: 0	5/30/24 A	nalyzed: 06/05/24
Benzene	2.51	0.0250	2.50		101	70-130			
Ethylbenzene	2.64	0.0250	2.50		106	70-130			
Toluene	2.50	0.0250	2.50		99.9	70-130			
p-Xylene	2.71	0.0250	2.50		109	70-130			
p,m-Xylene	5.41	0.0500	5.00		108	70-130			
Total Xylenes	8.13	0.0250	7.50		108	70-130			
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
LCS Dup (2422093-BSD1)							Prepared: 0	5/30/24 A	nalyzed: 06/05/24
Benzene	2.57	0.0250	2.50		103	70-130	2.24	23	
Ethylbenzene	2.72	0.0250	2.50		109	70-130	2.87	27	
Toluene	2.56	0.0250	2.50		102	70-130	2.39	24	
p-Xylene	2.84	0.0250	2.50		114	70-130	4.48	27	
p,m-Xylene	5.68	0.0500	5.00		114	70-130	4.80	27	
Total Xylenes	8.52	0.0250	7.50		114	70-130	4.69	27	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.2 0 0						



## QC Summary Data

		QC D	umma	ii y Data	a						
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	O 6 State TB 6003-0002 shley Gioveng	10				<b>Reported:</b> 6/7/2024 9:49:02AM		
Dunus IX, 75240	Nonhalogenated Organics by EPA 8015D - GRO								Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2422093-BLK1)							Prepared: 0	5/30/24 A	nalyzed: 06/05/24		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130					
Surrogate: Toluene-d8	0.493		0.500		98.6	70-130					
LCS (2422093-BS2)							Prepared: 0	5/30/24 A	analyzed: 06/05/24		
Gasoline Range Organics (C6-C10)	46.6	20.0	50.0		93.2	70-130					
Surrogate: Bromofluorobenzene	0.516		0.500		103	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130					
Surrogate: Toluene-d8	0.511		0.500		102	70-130					
LCS Dup (2422093-BSD2)							Prepared: 0	5/30/24 A	analyzed: 06/05/24		
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0		98.3	70-130	5.33	20			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.7	70-130					
Surrogate: Toluene-d8	0.506		0.500		101	70-130					



## QC Summary Data

Matador Resources, LLC.		Project Name:	A	O 6 State TB					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	003-0002					
Dallas TX, 75240		Project Manager:	As	hley Giovengo					6/7/2024 9:49:02AM
	Nonh	alogenated Org	anics by	EPA 8015D -	DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423032-BLK1)							Prepared: 0	6/04/24	Analyzed: 06/05/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
		5 010							
Surrogate: n-Nonane	52.7		50.0		105	50-200			
-	52.7		50.0		105	50-200	Prepared: 0	6/04/24	Analyzed: 06/05/24
LCS (2423032-BS1)	52.7 266	25.0	50.0 250		105	50-200	Prepared: 0	6/04/24	Analyzed: 06/05/24
LCS (2423032-BS1) Diesel Range Organics (C10-C28)							Prepared: 0	6/04/24	Analyzed: 06/05/24
LCS (2423032-BS1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane	266		250		106	38-132			Analyzed: 06/05/24 Analyzed: 06/05/24
Surrogate: n-Nonane LCS (2423032-BS1) Diesel Range Organics (C10-C28) Surrogate: n-Nonane LCS Dup (2423032-BSD1) Diesel Range Organics (C10-C28)	266		250		106	38-132			•



## QC Summary Data

		-		v					
Matador Resources, LLC.		Project Name:	A	O 6 State TB					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	3003-0002					
Dallas TX, 75240		Project Manager	: А	shley Gioveng	go				6/7/2024 9:49:02AM
		Anions	by EPA 3	<b>300.0/9056</b> A	4				Analyst: WF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423010-BLK1)							Prepared: 0	6/03/24 A	analyzed: 06/03/24
Chloride	ND	20.0							
LCS (2423010-BS1)							Prepared: 0	6/03/24 A	analyzed: 06/03/24
Chloride	248	20.0	250		99.4	90-110			
LCS Dup (2423010-BSD1)							Prepared: 0	6/03/24 A	analyzed: 06/03/24
Chloride	248	20.0	250		99.0	90-110	0.356	20	

QC Summary Report Comment:

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



## **Definitions and Notes**

Matador Resources, LLC.	Project Name:	AO 6 State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/07/24 09:49

ND Analyte NOT DETECTED at or above the reporting	limit
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- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





#### **Chain of Custody**

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#### **Chain of Custody**

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eld sam	bler), attest to the	e validity and	authentici	ty of this samp	le. I am aware	that tampe	ring with or i	ntentionally mislab	eling th	e sample	locatio	on, date	or tim	e of co	llection	is cor	nsidere	d frau	d and n	nay be gro	ounds fo	r legal ac	tion.		
inquish	ed by: (Signatu	re)	Dati	/24/24	Time	Marei	ved by Sig	Angele	<b>15</b>	)ate 5,24	-24	Time					Sample	s requi d or re	iring the ceived p	rmal prese	rvation m	ust be re	eived on ice (	the day they are is than 6 °C on	•
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## **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. Da	te Received:	05/28/24	10:00		Work Order ID:	E405366
Phone:	(972) 371-5200 Da	te Logged In:	05/25/24			Logged In By:	Alexa Michaels
Email:		e Date:		17:00 (5 day TAT)		Logged III Dy.	
Chain o	f Custody (COC)						
	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match t	he COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrier: Cou	urier		
4. Was tl	he 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 i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes			Commen	ts/Resolution
Samnle	Turn Around Time (TAT)			Г			
	the COC indicate standard TAT, or Expedited TAT?		Yes				
	Cooler_						
	sample cooler received?		Yes				
8. If yes	, was cooler received in good condition?		Yes				
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
	s, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling	eived w/i 15	Yes				
	o visible ice, record the temperature. Actual sample tem	perature: <u>4</u> °	<u>C</u>				
	<u>Container</u>						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?		NA				
	e appropriate volume/weight or number of sample containers	collected?	Yes Yes				
Field La		concercu:	105				
	e field sample labels filled out with the minimum information of the minimu	ntion:					
	Sample ID?		Yes				
	Date/Time Collected?		Yes	L			
	Collectors name?		Yes				
_	Preservation	10					
	s the COC or field labels indicate the samples were preserved	rved?	No				
	sample(s) correctly preserved? b filteration required and/or requested for dissolved meta	le?	NA				
		15 :	No				
-	nase Sample Matrix		**				
	s the sample have more than one phase, i.e., multiphase?	19	No				
27. If ye	es, does the COC specify which phase(s) is to be analyzed	11	NA				
	tract Laboratory						
	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: 1	NA		

**Client Instruction** 

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



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

Matador Resources, LLC.

Project Name: AC

AO 6 State TB

Work Order: E406006

Job Number: 23003-0002

Received: 6/3/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 6/7/24

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: 6/7/24

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

Project Name: AO 6 State TB Workorder: E406006 Date Received: 6/3/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/3/2024 8:00:00AM, under the Project Name: AO 6 State TB.

The analytical test results summarized in this report with the Project Name: AO 6 State TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices:

Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@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

Michelle Golzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com



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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 -0'	5
BH01 -1'	6
BH02 -0'	7
BH02 -2'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

## **Sample Summary**

## Page 58 of 211

		Sample Sum	mai y		
Matador Resources, LLC.		Project Name:	AO 6 State TB		Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23003-0002		
Dallas TX, 75240		Project Manager:	Ashley Giovengo		06/07/24 14:30
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 -0'	E406006-01A	Soil	05/30/24	06/03/24	Glass Jar, 2 oz.
BH01 -1'	E406006-02A	Soil	05/30/24	06/03/24	Glass Jar, 2 oz.
BH02 -0'	E406006-03A	Soil	05/30/24	06/03/24	Glass Jar, 2 oz.
BH02 -2'	E406006-04A	Soil	05/30/24	06/03/24	Glass Jar, 2 oz.



5400 LBJ Freeway, Suite 1500 P	Project Name Project Numl Project Mana Result	ber: 2300	6 State TB 13-0002 ey Giovengo			<b>Reported:</b> 6/7/2024 2:30:38PM
	Project Mana	nger: Ashl BH01 -0' E406006-01 Reporting				•
Dallas TX, 75240 P		BH01 -0' E406006-01 Reporting	ey Giovengo			6/7/2024 2:30:38PM
	Result	E406006-01 Reporting				
	Result	Reporting				
	Result					
	Result	T				
Analyte		Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	/st: IY		Batch: 2423011
Benzene	ND	0.0250	1	06/03/24	06/04/24	
Ethylbenzene	ND	0.0250	1	06/03/24	06/04/24	
Toluene	ND	0.0250	1	06/03/24	06/04/24	
p-Xylene	ND	0.0250	1	06/03/24	06/04/24	
p,m-Xylene	ND	0.0500	1	06/03/24	06/04/24	
Total Xylenes	ND	0.0250	1	06/03/24	06/04/24	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: IY		Batch: 2423011
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/24	06/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.5 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	/st: KM		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		109 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: DT		Batch: 2423049
Chloride	5210	40.0	2	06/04/24	06/04/24	



	D.	ample D	ala			
Matador Resources, LLC.	Project Name:	: AO	6 State TB			
5400 LBJ Freeway, Suite 1500	Project Numb	er: 2300	03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			6/7/2024 2:30:38PM
		BH01 -1'				
		E406006-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2423011
Benzene	ND	0.0250	1	06/03/24	06/04/24	
Ethylbenzene	ND	0.0250	1	06/03/24	06/04/24	
Toluene	ND	0.0250	1	06/03/24	06/04/24	
p-Xylene	ND	0.0250	1	06/03/24	06/04/24	
o,m-Xylene	ND	0.0500	1	06/03/24	06/04/24	
Total Xylenes	ND	0.0250	1	06/03/24	06/04/24	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2423011
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/24	06/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.7 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Dil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		108 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2423049
Chloride	244	20.0	1	06/04/24	06/04/24	



	Di	ample D	ลเล			
Matador Resources, LLC.	Project Name:	AO	6 State TB			
5400 LBJ Freeway, Suite 1500	Project Numbe	er: 2300	03-0002			Reported:
Dallas TX, 75240	Project Manag	er: Ash	ley Giovengo			6/7/2024 2:30:38PM
		BH02 -0'				
		E406006-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: IY		Batch: 2423011
Benzene	ND	0.0250	1	06/03/24	06/04/24	
Ethylbenzene	ND	0.0250	1	06/03/24	06/04/24	
Toluene	ND	0.0250	1	06/03/24	06/04/24	
p-Xylene	ND	0.0250	1	06/03/24	06/04/24	
p,m-Xylene	ND	0.0500	1	06/03/24	06/04/24	
Fotal Xylenes	ND	0.0250	1	06/03/24	06/04/24	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: IY		Batch: 2423011
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/24	06/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		100 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2423048
Diesel Range Organics (C10-C28)	69.0	25.0	1	06/04/24	06/06/24	
Dil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		110 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2423049
Chloride	7190	100	5	06/04/24	06/04/24	



	3	ample D	ลเล			
Matador Resources, LLC.	Project Name:	AO	6 State TB			
5400 LBJ Freeway, Suite 1500	Project Numb	er: 2300	03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo		6/7/2024 2:30:38PM	
		BH02 -2'				
		E406006-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: IY		Batch: 2423011
Benzene	ND	0.0250	1	06/03/24	06/04/24	
Ethylbenzene	ND	0.0250	1	06/03/24	06/04/24	
Toluene	ND	0.0250	1	06/03/24	06/04/24	
p-Xylene	ND	0.0250	1	06/03/24	06/04/24	
p,m-Xylene	ND	0.0500	1	06/03/24	06/04/24	
Fotal Xylenes	ND	0.0250	1	06/03/24	06/04/24	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2423011
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/03/24	06/04/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.2 %	70-130	06/03/24	06/04/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2423048
Diesel Range Organics (C10-C28)	ND	25.0	1	06/04/24	06/06/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/04/24	06/06/24	
Surrogate: n-Nonane		108 %	50-200	06/04/24	06/06/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2423049
Chloride	72.8	20.0	1	06/04/24	06/04/24	



## **QC Summary Data**

		<u> </u>			-				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	23	D 6 State TB 003-0002 shley Giovenge	0				<b>Reported:</b> 6/7/2024 2:30:38PM	
		Volatile Or	rganics b	oy EPA 802	1B				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423011-BLK1)						]	Prepared: 0	6/03/24 A	nalyzed: 06/03/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Foluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			
LCS (2423011-BS1)						1	Prepared: 0	6/03/24 A	nalyzed: 06/03/24
Benzene	4.55	0.0250	5.00		91.1	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.2	70-130			
Toluene	4.49	0.0250	5.00		89.8	70-130			
p-Xylene	4.39	0.0250	5.00		87.9	70-130			
o,m-Xylene	9.00	0.0500	10.0		90.0	70-130			
Total Xylenes	13.4	0.0250	15.0		89.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.2	70-130			
LCS Dup (2423011-BSD1)						]	Prepared: 0	6/03/24 A	nalyzed: 06/03/24
Benzene	4.71	0.0250	5.00		94.2	70-130	3.36	20	
Ethylbenzene	4.56	0.0250	5.00		91.1	70-130	3.21	20	
Toluene	4.64	0.0250	5.00		92.8	70-130	3.29	20	
p-Xylene	4.53	0.0250	5.00		90.6	70-130	3.05	20	
o,m-Xylene	9.27	0.0500	10.0		92.7	70-130	2.93	20	
Total Xylenes	13.8	0.0250	15.0		92.0	70-130	2.97	20	
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			



## **OC Summary Data**

		QC N	Juiiiia	iry Dat	а				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number	: 23	O 6 State TB 003-0002					Reported:
Dallas TX, 75240		Project Manager	r: As	shley Gioveng	go				6/7/2024 2:30:38PM
	No	nhalogenated	Organics	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423011-BLK1)							Prepared: 0	6/03/24 A	nalyzed: 06/03/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.2	70-130			
LCS (2423011-BS2)							Prepared: 0	6/03/24 A	nalyzed: 06/03/24
Gasoline Range Organics (C6-C10)	48.5	20.0	50.0		97.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.05		8.00		101	70-130			
LCS Dup (2423011-BSD2)							Prepared: 0	6/03/24 A	nalyzed: 06/03/24
Gasoline Range Organics (C6-C10)	49.6	20.0	50.0		99.1	70-130	2.17	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.2	70-130			



## QC Summary Data

		QC D	umma	ll y Data	l				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		O 6 State TB 003-0002					Reported:
Dallas TX, 75240		Project Manager		shley Giovenge	0				6/7/2024 2:30:38PM
	Nonh	alogenated Org	ganics by	EPA 8015D	- DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423048-BLK1)							Prepared: 0	6/04/24 A	nalyzed: 06/06/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.7		50.0		109	50-200			
LCS (2423048-BS1)							Prepared: 0	6/04/24 A	nalyzed: 06/06/24
Diesel Range Organics (C10-C28)	308	25.0	250		123	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			
LCS Dup (2423048-BSD1)							Prepared: 0	6/04/24 A	nalyzed: 06/06/24
Diesel Range Organics (C10-C28)	307	25.0	250		123	38-132	0.194	20	



## QC Summary Data

		<u> </u>		v					
Matador Resources, LLC.		Project Name:	A	O 6 State TB					Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	3003-0002					
Dallas TX, 75240		Project Manager:	A	shley Gioveng	go				6/7/2024 2:30:38PM
		Anions	by EPA 3	600.0/9056A	۱				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2423049-BLK1)							Prepared: 0	6/04/24 A	Analyzed: 06/04/24
Chloride	ND	20.0							
LCS (2423049-BS1)							Prepared: 0	6/04/24 A	Analyzed: 06/04/24
Chloride	255	20.0	250		102	90-110			
LCS Dup (2423049-BSD1)							Prepared: 0	6/04/24 A	Analyzed: 06/04/24
Chloride	256	20.0	250		103	90-110	0.408	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**

Γ	Matador Resources, LLC.	Project Name:	AO 6 State TB	
l	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/07/24 14:30

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.

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

Project Information

Client: N	Bill To					)	(***			La	ıb Us	se Or	nly					T/	AT.		EPA Program					
Project:		ate Com							um LLC			Lab	wQ#	002		dol				1D	2D	3D	St	andard	CWA	SDWA
	lanager: As				_		ess: or					<u>IE </u>	00	$\mathcal{U}$				-00						x		
	3122 Natio						State, Z									Analy	/sis a	nd Me	thod							RCRA
	e, Zip: Carls		88220			-	<u>e: 575</u>					-	λq													
	575-988-005					Email	: agio	vengo	@ensol	um.com		4	/OR(							~					State	
Report d	giovengo@e	nsolum.c	.om										DRO	5	99	9	l g			MN		Ĕ		NM CO		
			<u> </u>	<u></u>							Lab	-	NO/	₽Å R	y 82	5	de 3	Ӗ		Х				×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID							Number		TPH GRO/DRO/ORO by 8015	ВТЕХ by 8021	VOC by 8260	Metals 6010	Chloride 300.0	тсед трн		BGDOC		goc			Remarks	
10:47	5/30/2024	Soil	1			E	3H01 -(	0'												x						
10:54	5/30/2024	Soil	1			E	3H01 -:	1'			2									x						
11:03	5/30/2024	Soil	1			B	3H02 -	0'			3									x						
11:08	5/30/2024	Soil	1			E	3H02 -	2'			4									x						
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Addition	al Instructio	ns: Ple	ase CC: c	burton@ei	nsolum	.com, a	giover	ngo@e	ensolum	n.com, ch	amilton@e	ensol	um.c	om, e	ehaf	t@er	nsolu	im.co	m, ie	estre	ella@	enso	olum	.com		
	pler), attest to the of collection is a	•		-			tamperii	-	or intention bled by:	nally mislabe	lling the samp	e locat	ion,					-						l on ice the day an 6 °C on subs		oled or
	əd by: (Şignatu		Date	· · ·	Time	F	Received		mature)	Jan	Date 5.31	·24	Time	000	,	Rec	oivo	d on i	<u>م،</u>		ab U Ƴ∧	se Or	ıly			
Relinquish	ed by (Signatu		Date	1	Time	F	Received	C: (Sig	gnature)	0	Date 6/3/	24	Time	300	>			1 011 1		U 12	) "	•		<u>T3</u>		
Relinquis	ed by: (Signatu	(A	Date		Time		Received	d by: (Sig	gnature)		Date	•	Time	~~~			Tor	np °C		<u></u>						
Sample Ma	rix: <b>S</b> - Soil, <b>Sd</b> - S	Solid, Sg - St	udge, A - Aa	ueous, O - Othe	er						Containe	r Typ	e: g -	glass.	p - c	-			-	er gla	ass. v	- VO	A			
	ples are discard					s other a	rrangen	nents ar	re made.	Hazardou														ort for the a	analysis of t	the above
	applicable only																									
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## **Envirotech Analytical Laboratory**

Client:	Matador Resources, LLC.	Date Received:	06/03/24	08:00	W	ork Order ID:	E406006
Phone:	(972) 371-5200	Date Logged In:	06/03/24	10:43	L	ogged In By:	Angelina Pineda
Email:	agiovngo@ensolum.com	Due Date:	06/10/24	17:00 (5 day TAT)			
Chain of	f Custody (COC)						
1. Does t	the sample ID match the COC?		Yes				
	the number of samples per sampling site location mate	ch the COC	Yes				
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: Couri	ier		
4. Was th	ne COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes				
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		Yes			<u>Commen</u>	ts/Resolution
Sample '	Turn Around Time (TAT)						
	e 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 tł	ne sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If yes	s, were custody/security seals intact?		NA				
	he sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling	received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample t	temperature: <u>4°</u>	<u>C</u>				
-	<u>Container</u>						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?	11 4 19	Yes				
	appropriate volume/weight or number of sample contained	ers collected?	Yes				
Field La	<u>bel</u> field sample labels filled out with the minimum infor	mation					
	Sample ID?	mation.	Yes				
	Date/Time Collected?		Yes				
(	Collectors name?		Yes				
-	Preservation_						
	the COC or field labels indicate the samples were pre-	eserved?	No				
	sample(s) correctly preserved?	ata1a9	NA				
	o filteration required and/or requested for dissolved me	ctals?	No				
	ase Sample Matrix	0					
	the sample have more than one phase, i.e., multiphase		No				
27. If yes	s, does the COC specify which phase(s) is to be analyz	zed?	NA				
	ract Laboratory						
	samples required to get sent to a subcontract laborator		No				
20 Was	a subcontract laboratory specified by the client and if	so who?	NA	Subcontract Lab: NA	•		

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



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

## **Analytical Report**

## Matador Resources, LLC.

Project Name: AO 6

AO 6 State TB

Work Order: E407179

Job Number: 23052-0001

Received: 7/24/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/29/24

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: 7/29/24

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

Project Name: AO 6 State TB Workorder: E407179 Date Received: 7/24/2024 5:00:00AM

Ashley Giovengo,



Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/24/2024 5:00:00AM, under the Project Name: AO 6 State TB.

The analytical test results summarized in this report with the Project Name: AO 6 State TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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,

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Envirotech Web Address: www.envirotech-inc.com

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## Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS01 - 0'	5
FS02 - 0'	6
FS03 - 0'	7
FS04 - 0'	8
FS05 - 0'	9
FS06 - 0'	10
FS07 - 0'	11
QC Summary Data	12
QC - Volatile Organic Compounds by EPA8260B	12
QC - Nonhalogenated Organics by EPA 8015D - GRO	13
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	14
QC - Anions by EPA 300.0/9056A	15
Definitions and Notes	16
Chain of Custody etc.	17
### Sample Summarv

		Sample Sum	mai y		
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	AO 6 State TB 23052-0001 Ashley Giovengo		<b>Reported:</b> 07/29/24 15:48
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 - 0'	E407179-01A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS02 - 0'	E407179-02A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS03 - 0'	E407179-03A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS04 - 0'	E407179-04A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS05 - 0'	E407179-05A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS06 - 0'	E407179-06A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.
FS07 - 0'	E407179-07A	Soil	07/22/24	07/24/24	Glass Jar, 2 oz.



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Matador Resources, LLC.	Project Name:		6 State TB				
5400 LBJ Freeway, Suite 1500	Project Numbe		52-0001				Reported:
Dallas TX, 75240	Project Manag	er: Ash	ley Gioven	igo			7/29/2024 3:48:07PM
		FS01 - 0'					
		E407179-01					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2430059
Benzene	ND	0.0250		1	07/24/24	07/24/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/24/24	
Toluene	ND	0.0250		1	07/24/24	07/24/24	
p-Xylene	ND	0.0250		1	07/24/24	07/24/24	
o,m-Xylene	ND	0.0500		1	07/24/24	07/24/24	
Total Xylenes	ND	0.0250		1	07/24/24	07/24/24	
Surrogate: Bromofluorobenzene		116 %	70-130		07/24/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		07/24/24	07/24/24	
Surrogate: Toluene-d8		108 %	70-130		07/24/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/24/24	
Surrogate: Bromofluorobenzene		116 %	70-130		07/24/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		07/24/24	07/24/24	
urrogate: Toluene-d8		108 %	70-130		07/24/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0		1	07/24/24	07/25/24	
Dil Range Organics (C28-C36)	ND	50.0		1	07/24/24	07/25/24	
Surrogate: n-Nonane		91.2 %	50-200		07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	JM		Batch: 2430068
Chloride	5010	40.0		2	07/24/24	07/24/24	

# Sample Data



	S	ample Da	ata				
5400 LBJ Freeway, Suite 1500	Project Name: Project Numb Project Manag	er: 2305	6 State TE 52-0001 ey Giover			<b>Reported:</b> 7/29/2024 3:48:07PM	
		FS02 - 0'					
		E407179-02					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	BA		Batch: 2430059
Benzene	ND	0.0250		1	07/24/24	07/24/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/24/24	
Toluene	ND	0.0250		1	07/24/24	07/24/24	
o-Xylene	ND	0.0250		1	07/24/24	07/24/24	
p,m-Xylene	ND	0.0500		1	07/24/24	07/24/24	
Total Xylenes	ND	0.0250		1	07/24/24	07/24/24	
Surrogate: Bromofluorobenzene		113 %	70-130		07/24/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		07/24/24	07/24/24	
Surrogate: Toluene-d8		107 %	70-130		07/24/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/24/24	
Surrogate: Bromofluorobenzene		113 %	70-130		07/24/24	07/24/24	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130		07/24/24	07/24/24	
Surrogate: Toluene-d8		107 %	70-130		07/24/24	07/24/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0		1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/24/24	07/25/24	
Surrogate: n-Nonane		91.2 %	50-200		07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	JM		Batch: 2430068
Chloride	3040	40.0		2	07/24/24	07/24/24	

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Page 75 of 211

	S	ample Da	ata				
5400 LBJ Freeway, Suite 1500	Project Name:AO 6 State TBProject Number:23052-0001Project Manager:Ashley Giovengo						<b>Reported:</b> 7/29/2024 3:48:07PM
		FS03 - 0'					
		E407179-03					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2430059
Benzene	ND	0.0250		1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/25/24	
Toluene	ND	0.0250		1	07/24/24	07/25/24	
o-Xylene	ND	0.0250		1	07/24/24	07/25/24	
p,m-Xylene	ND	0.0500		1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250		1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		108 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		108 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0		1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/24/24	07/25/24	
Surrogate: n-Nonane		93.9 %	50-200		07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2430068
Chloride	5820	100		5	07/24/24	07/24/24	

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Page 76 of 211

	S	Sample D	ata				
Matador Resources, LLC.	Project Name	e: AO	6 State TB				
5400 LBJ Freeway, Suite 1500	Project Num	ber: 2305	52-0001				Reported:
Dallas TX, 75240	Project Mana	ager: Ash	ley Gioveng	go			7/29/2024 3:48:07PM
		FS04 - 0'					
		E407179-04					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	L	Analyst: E	BA		Batch: 2430059
Benzene	ND	0.0250	1	1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250	1	1	07/24/24	07/25/24	
Toluene	ND	0.0250	1	1	07/24/24	07/25/24	
p-Xylene	ND	0.0250	1	1	07/24/24	07/25/24	
o,m-Xylene	ND	0.0500	1	1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250	1	1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		109 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: E	BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		112 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		91.8 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		109 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	) mg/kg	mg/kg		Analyst: N	NV		Batch: 2430057
Diesel Range Organics (C10-C28)	84.3	25.0	1	1	07/24/24	07/25/24	
Dil Range Organics (C28-C36)	74.0	50.0	1	1	07/24/24	07/25/24	
Surrogate: n-Nonane		100 %	50-200		07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: J	М		Batch: 2430068
Chloride	5480	100	5	5	07/24/24	07/24/24	



Page 77 of 211

	S	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numl Project Mana	ber: 230	6 State TB 52-0001 ley Giover				<b>Reported:</b> 7/29/2024 3:48:07PM
		FS05 - 0'					
		E407179-05					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2430059
Benzene	ND	0.0250		1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/25/24	
Toluene	ND	0.0250		1	07/24/24	07/25/24	
o-Xylene	ND	0.0250		1	07/24/24	07/25/24	
p,m-Xylene	ND	0.0500		1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250		1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		115 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		108 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		115 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.3 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		108 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg		Analyst	: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0		1	07/24/24	07/25/24	
Oil Range Organics (C28-C36)	ND	50.0		1	07/24/24	07/25/24	
Surrogate: n-Nonane		87.7 %	50-200		07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2430068
Chloride	5300	100		5	07/24/24	07/24/24	

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Page 78 of 211

	S	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2303	6 State TB 52-0001 ley Giover				<b>Reported:</b> 7/29/2024 3:48:07PM
		FS06 - 0'					
		E407179-06					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2430059
Benzene	ND	0.0250		1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/25/24	
Toluene	ND	0.0250		1	07/24/24	07/25/24	
o-Xylene	ND	0.0250		1	07/24/24	07/25/24	
p,m-Xylene	ND	0.0500		1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250		1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		116 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		107 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		116 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.7 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		107 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	) mg/kg	mg/kg		Analyst	: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0		1	07/24/24	07/25/24	
Dil Range Organics (C28-C36)	ND	50.0		1	07/24/24	07/25/24	
Surrogate: n-Nonane		95.9 %	50-200		07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2430068
Chloride	7200	100		5	07/24/24	07/24/24	

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Page 79 of 211

	S	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numl Project Mana	ber: 230	6 State TB 52-0001 ley Giover				<b>Reported:</b> 7/29/2024 3:48:07PM
		FS07 - 0'					
		E407179-07					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg mg/kg Analy		Analyst	: BA		Batch: 2430059	
Benzene	ND	0.0250		1	07/24/24	07/25/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/25/24	
Toluene	ND	0.0250		1	07/24/24	07/25/24	
p-Xylene	ND	0.0250		1	07/24/24	07/25/24	
o,m-Xylene	ND	0.0500		1	07/24/24	07/25/24	
Total Xylenes	ND	0.0250		1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		113 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		107 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: BA		Batch: 2430059
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/25/24	
Surrogate: Bromofluorobenzene		113 %	70-130		07/24/24	07/25/24	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130		07/24/24	07/25/24	
Surrogate: Toluene-d8		107 %	70-130		07/24/24	07/25/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	mg/kg	mg/kg		Analyst	: NV		Batch: 2430057
Diesel Range Organics (C10-C28)	ND	25.0		1	07/24/24	07/25/24	
Dil Range Organics (C28-C36)	ND	50.0		1	07/24/24	07/25/24	
Surrogate: n-Nonane		88.3 %	50-200		07/24/24	07/25/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: JM		Batch: 2430068
Chloride	2350	40.0		2	07/24/24	07/24/24	



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Page 80 of 211

# QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	D 6 State TB 052-0001 hley Giovengo					<b>Reported:</b> 7/29/2024 3:48:07PM
Danas 1X, 75240									772972024 3.46.07114
		Volatile Organic	Compou	unds by EPA	82601	B			Analyst: BA
Analyte		Reporting	Spike	Source		Rec		RPD	
-	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430059-BLK1)							Prepared: 07	7/24/24 A	nalyzed: 07/24/24
Benzene	ND	0.0250							-
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
o,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.584		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.8	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
LCS (2430059-BS1)							Prepared: 07	7/24/24 A	nalyzed: 07/24/24
Benzene	2.20	0.0250	2.50		88.0	70-130			•
Ethylbenzene	2.51	0.0250	2.50		100	70-130			
Toluene	2.49	0.0250	2.50		99.7	70-130			
p-Xylene	2.71	0.0250	2.50		108	70-130			
o,m-Xylene	5.45	0.0500	5.00		109	70-130			
Fotal Xylenes	8.16	0.0250	7.50		109	70-130			
Surrogate: Bromofluorobenzene	0.586	010200	0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.464		0.500		92.8	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			
Matrix Spike (2430059-MS1)				Source: E	407178-	10	Prenared 0'	7/24/24 A	nalyzed: 07/24/24
· · · · · ·	2.20	0.0250	2.50	ND	88.0	48-131	Trepurea: 0	//2//2111	inary200. 0772 172 1
Benzene	2.20	0.0250	2.50	ND	100	45-131			
Ethylbenzene	2.30	0.0250		ND	99.5	43-135 48-130			
Toluene		0.0250	2.50						
p-Xylene	2.67	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.29	0.0500	5.00	ND	106	43-135			
Total Xylenes	7.96	0.0250	7.50	ND	106	43-135			
Surrogate: Bromofluorobenzene	0.571		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			
Matrix Spike Dup (2430059-MSD1)				Source: E	407178-	10	Prepared: 07	7/24/24 A	nalyzed: 07/24/24
Benzene	2.17	0.0250	2.50	ND	86.7	48-131	1.47	23	
Ethylbenzene	2.46	0.0250	2.50	ND	98.6	45-135	1.49	27	
Toluene	2.45	0.0250	2.50	ND	98.1	48-130	1.44	24	
p-Xylene	2.67	0.0250	2.50	ND	107	43-135	0.281	27	
o,m-Xylene	5.31	0.0500	5.00	ND	106	43-135	0.377	27	
,iii-Ayiciic	7.98	0.0250	7.50	ND	106	43-135	0.157	27	
Total Xylenes									
Total Xylenes	0.582		0.500		116	70-130			
			0.500 0.500		116 95.8	70-130 70-130			



# QC Summary Data

		<b>X</b> U S		in y Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	O 6 State TB 3052-0001 shley Giovengo					<b>Reported:</b> 7/29/2024 3:48:07PM
	No	onhalogenated O	rganics	by EPA 8015	5D - Gl	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430059-BLK1)							Prepared: 0	7/24/24	Analyzed: 07/24/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.584		0.500		117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.449		0.500		89.8	70-130			
Surrogate: Toluene-d8	0.533		0.500		107	70-130			
LCS (2430059-BS2)							Prepared: 0	7/24/24	Analyzed: 07/24/24
Gasoline Range Organics (C6-C10)	53.2	20.0	50.0		106	70-130			
Surrogate: Bromofluorobenzene	0.580		0.500		116	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130			
Surrogate: Toluene-d8	0.550		0.500		110	70-130			
Matrix Spike (2430059-MS2)				Source: E	407178-	10	Prepared: 0	7/24/24	Analyzed: 07/24/24
Gasoline Range Organics (C6-C10)	53.5	20.0	50.0	ND	107	70-130			
Surrogate: Bromofluorobenzene	0.594		0.500		119	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.443		0.500		88.5	70-130			
Surrogate: Toluene-d8	0.547		0.500		109	70-130			
Matrix Spike Dup (2430059-MSD2)				Source: E	407178-	10	Prepared: 0	7/24/24	Analyzed: 07/24/24
Gasoline Range Organics (C6-C10)	53.0	20.0	50.0	ND	106	70-130	0.930	20	
Surrogate: Bromofluorobenzene	0.588		0.500		118	70-130			
	0.440		0.500		00.5	70 120			
Surrogate: 1,2-Dichloroethane-d4	0.448		0.500		89.5	70-130			



# QC Summary Data

		QC D	u	ary Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	AO 6 State TB 23052-0001 Ashley Giovengo					<b>Reported:</b> 7/29/2024 3:48:07PM
	Nonh	alogenated Org	anics by	v EPA 8015D	- DRO	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2430057-BLK1)							Prepared: 0	7/24/24 A	Analyzed: 07/25/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.8		50.0		126	50-200			
LCS (2430057-BS1)							Prepared: 0	7/24/24 A	Analyzed: 07/25/24
Diesel Range Organics (C10-C28)	242	25.0	250		96.8	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2430057-MS1)				Source: E	407179-	05	Prepared: 0	7/24/24 A	Analyzed: 07/25/24
Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			
Matrix Spike Dup (2430057-MSD1)				Source: E	407179-	05	Prepared: 0	7/24/24 A	Analyzed: 07/25/24
Diesel Range Organics (C10-C28)	251	25.0	250	ND	100	38-132	1.35	20	
Surrogate: n-Nonane	54.3		50.0		109	50-200			



## **QC Summary Data**

		$\mathbf{x} \in \mathbf{v}$	•••••••		-					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		AO 6 State TB 3052-0001					Repo	orted:
Dallas TX, 75240		Project Manager:		Ashley Giovengo	)				7/29/2024	3:48:07PM
		Anions	by EPA	300.0/9056A					Analyst	: JM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	1	Notes
Blank (2430068-BLK1)							Prepared: 0	7/24/24	Analyzed: 0	7/24/24
Chloride	ND	20.0								
LCS (2430068-BS1)							Prepared: 0	7/24/24	Analyzed: 0	7/24/24
Chloride	249	20.0	250		99.6	90-110				
Matrix Spike (2430068-MS1)				Source: I	E407178-0	)8	Prepared: 0	7/24/24	Analyzed: 0	7/24/24
Chloride	249	20.0	250	ND	99.7	80-120				
Matrix Spike Dup (2430068-MSD1)				Source: I	E <b>407178-</b> (	)8	Prepared: 0	7/24/24	Analyzed: 0	7/24/24
Chloride	248	20.0	250	ND	99.3	80-120	0.397	20		

QC Summary Report Comment:

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



## **Definitions and Notes**

Matador Resources, LLC.	Project Name:	AO 6 State TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23052-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/29/24 15:48

ND	Analyte NOT DETECTED at or above the reporting limit
----	--

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.

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

#### **Chain of Custody**

	Clie	nt Inforn	nation			Invoice Informati	ion				La	b Us	e Or	ly				т	AT			St	ate	-
Client: N	Aatador Prod	duction C	ompany		Co	mpany: Ensolum LLC		1	ab W	VO#		1	Job	Num	ber	1	1D	2D	3D	Std	N	MCOL	JT TX	_
	AO 6 State 1					dress: 3122 National Park	s Hwv		EHO					00		12				x	x			-
	Aanager: As		engo			y, State, Zip: Carlsbad NM	1			-		-								_	-			-
	3122 Natio					one: 575-988-0055			Г	-			Ana	lysis	and	Met	hod	1		1		EPA Pro	gram	-
	e, Zip: Carls				En	nail: agiovengo@ensolun	n.com					-			1			1			SDW			A
	575-988-005					cellaneous:											11.1			t				-
Contraction of the second	giovengo@e		com			centuries usi				5	5								1 1	t	Compli	ance	Y or	N
										801	8015			0			5			t	PWSID			-
				Sam	ple Informati	on				30 by	so by	8021	8260	e 300.	- NM	05 - TX	Meta			Ì	1			
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lat Num	ber	DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remai	'ks	
11:47	7/22/2024	S	1	1		FS01 - 0'		1			0			0	x									
11:49	7/22/2024	S	1			FS02 - 0'		2							x									_
11:55	7/22/2024	S	1			FS03 - 0'		3							x									
11:57	7/22/2024	S	1			FS04 - 0'		4							x									
11:51	7/22/2024	S	1			FS05 - 0'		5	5						x									
11:54	7/22/2024	S	1			FS06 - 0'		6	0						x									
11:58	7/22/2024	S	1			FS07 - 0'		7							x									
							_		_									-			<u> </u>			_
bsimmo	ns@ensolun	n.com				agiovengo@ensolum.cor									_						_	on.		
	ed by: (Signatu	re)	Date		Time 7:30	Received by: (Signature)	Dat			Time	2'2	~										ived on ice the	e day they are	-
Relinquish	ed by: (Signatu	re)	Date	123/24	Time 1645	Michelle Gonz Received by: (Signature)	Dat	.23.2	7	Time	73				subse	eive	lavs		La		e Only			
Relinquis	ed by: (Signatu	re)	Date	23.24	Time 2330	Received by: (Signature)	Dat 7-			Time	50				T1	civet	. 011		T2			T3		
Relinquish	ed by: (Signatu	re)	Date		Time	Received by: (Signature)	Dat			Time						6 Ter		4						
Sample Ma	trix: <b>S</b> - Soil, <b>Sd</b> - S	Solid, Sg - Slu	idge, A - Aqu	eous, <b>O</b> - Othe	er		Co	ntainer	Type	: g -	glass	, p - I	ooly/	plasti	c, ag	- am	ber g	lass,	v - VO	A				
	· · · · · · · · · · · · · · · · · · ·	a second a second				arrangements are made. Hazard this COC. The liability of the lab	and the second second									e clie	nt exp	oense	. The re	eport	for the a	nalysis of t	he above	

Page 17 of 18

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envirotec

Received by OCD: 8/26/2024 2:52:38 PM

leceived l	by OCD: 8/26/2024 2:52:38 PM	Envirotech	Analvti	ical Laboratory		<i>Page 87 of</i> Printed: 7/24/2024 9:38:34AM
			•	Checklist (SRC)		
	Please take note of any NO checkmarks. no response concerning these items within 24 hours of th	-	-		quested	
				• •	•	E 405150
Client:		Date Received:	07/24/24 0		Work Order ID:	E407179
Phone:		Date Logged In:	07/23/24 1		Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	07/30/24 1	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	e sample ID match the COC?		Yes			
2. Does th	e number of samples per sampling site location mate	ch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion		Yes		<u>Commer</u>	its/Resolution
Sample T	urn Around Time (TAT)					
	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	Cooler					
7. Was a s	ample cooler received?		Yes			
8. If yes, w	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were d	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling		Yes			
13. If no v	visible ice, record the temperature. Actual sample t	temperature: 4 <sup>c</sup>	<u>°C</u>			
Sample C	Container	-				
	queous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers?		Yes			
19. Is the a	ppropriate volume/weight or number of sample contained	ers collected?	Yes			
Field Lab	<u>el</u>					
20. Were f	field sample labels filled out with the minimum infor	mation:				
	ample ID?		Yes			
	ate/Time Collected?		Yes			
	ollectors name?		Yes			
	reservation the COC or field labels indicate the samples were pre	normad?	Na			
	umple(s) correctly preserved?	serveu?	No NA			
	filteration required and/or requested for dissolved me	etals?	NA			
		••••10 ;	INO			
	se Sample Matrix	-9	3.7			
	the sample have more than one phase, i.e., multiphas		No			
27. If yes,	does the COC specify which phase(s) is to be analyz	zeu?	NA			
	act Laboratory					
	imples required to get sent to a subcontract laborator		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.







5796 U.S. Hwy 64 Farmington, NM 87401

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





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**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Matador Resources, LLC.

Project Name: AO

AO 6 State Com TB

Work Order: E407200

Job Number: 23003-0002

Received: 7/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/31/24

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: 7/31/24

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

Project Name: AO 6 State Com TB Workorder: E407200 Date Received: 7/25/2024 8:30:00AM

Ashley Giovengo,



Page 89 of 211

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2024 8:30:00AM, under the Project Name: AO 6 State Com TB.

The analytical test results summarized in this report with the Project Name: AO 6 State Com TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS08-0'	6
FS09-0'	7
FS10-0'	8
FS11-0'	9
FS12-0'	10
FS13-0'	11
FS14-0'	12
FS15-0'	13
FS16-0'	14
FS17-0'	15
FS18-0'	16
FS19-0'	17
FS20-0'	18
FS21-0'	19
FS22-0'	20
FS23-0'	21
FS24-0'	22
FS25-0'	23
FS26-0'	24
FS27-0'	25

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# Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organic Compounds by EPA8260B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

#### Sample Summary

		Sample Sum	mary				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	AO 6 State Com TE 23003-0002 Ashley Giovengo	3	<b>Reported:</b> 07/31/24 12:22		
lient Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container		
S08-0'	E407200-01A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S09-0'	E407200-02A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S10-0'	E407200-03A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S11-0'	E407200-04A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
'S12-0'	E407200-05A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S13-0'	E407200-06A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S14-0'	E407200-07A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S15-0'	E407200-08A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S16-0'	E407200-09A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S17-0'	E407200-10A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S18-0'	E407200-11A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S19-0'	E407200-12A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S20-0'	E407200-13A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S21-0'	E407200-14A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S22-0'	E407200-15A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S23-0'	E407200-16A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S24-0'	E407200-17A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S25-0'	E407200-18A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S26-0'	E407200-19A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		
S27-0'	E407200-20A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.		



		ampie 2				
Matador Resources, LLC.	Project Name:	: AO	6 State Com	n TB		
5400 LBJ Freeway, Suite 1500	Project Numb	er: 2300	03-0002			Reported:
Dallas TX, 75240	Project Manag	0		7/31/2024 12:22:46PM		
		FS08-0'				
		E407200-01				
		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
p-Xylene	ND	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
Surrogate: n-Nonane		95.9 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: DT		Batch: 2430116
Chloride	6940	100	5	07/25/24	07/25/24	

# Sample Data



	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbo Project Manag	er: 2300	6 State Con )3-0002 ley Gioveng				<b>Reported:</b> 7/31/2024 12:22:46PM
		FS09-0'					
		E407200-02					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	BA		Batch: 2430093
Benzene	ND	0.0250	1	l	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	l	07/24/24	07/26/24	
oluene	ND	0.0250	1	l	07/24/24	07/26/24	
-Xylene	ND	0.0250	1	l	07/24/24	07/26/24	
,m-Xylene	ND	0.0500	1	l	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	l	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/24/24	07/26/24	
urrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		07/24/24	07/26/24	
urrogate: Toluene-d8		101 %	70-130		07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: l	BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1		07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		106 %	70-130		07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130		07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130		07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	1	07/25/24	07/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	l	07/25/24	07/26/24	
Surrogate: n-Nonane		91.9 %	50-200		07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	DT		Batch: 2430116
Chloride	11300	200	1	0	07/25/24	07/25/24	



	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numl Project Mana	ber: 2300	6 State Com T 03-0002 ley Giovengo	ΈB		<b>Reported:</b> 7/31/2024 12:22:46PM
		FS10-0'				
		E407200-03				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Foluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.7 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
Surrogate: n-Nonane		96.2 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2430116
Chloride	17700	400	20	07/25/24	07/25/24	



	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manaş	er: 2300	6 State Com T 03-0002 ley Giovengo	В		<b>Reported:</b> 7/31/2024 12:22:46PM
		FS11-0'				
		E407200-04				
Analyte	Result	Reporting Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Foluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
Surrogate: n-Nonane		97.0 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2430116
Chloride	13600	200	10	07/25/24	07/25/24	



	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manaş	er: 2300	6 State Com )3-0002 ley Gioveng				<b>Reported:</b> 7/31/2024 12:22:46PM
		FS12-0'					
		E407200-05					
Analyte	Result	Reporting Limit	Dilut	tion P	repared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: BA			Batch: 2430093
Benzene	ND	0.0250	1	0	7/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	0	7/24/24	07/26/24	
Toluene	ND	0.0250	1	0	7/24/24	07/26/24	
-Xylene	ND	0.0250	1	0	7/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	0	7/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	0	7/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	0	7/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	0	7/24/24	07/26/24	
Surrogate: Toluene-d8		99.7 %	70-130	0	7/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: BA			Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	0	7/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	0	7/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130	0	7/24/24	07/26/24	
Surrogate: Toluene-d8		99.7 %	70-130	0	7/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	41.5	25.0	1	0	7/25/24	07/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	0	7/25/24	07/26/24	
Surrogate: n-Nonane		90.2 %	50-200	0	7/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: DT			Batch: 2430116
Chloride	13100	200	10	0 0	7/25/24	07/25/24	



	N	sample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 2300	6 State Com 7 03-0002 ley Giovengo	ГВ		<b>Reported:</b> 7/31/2024 12:22:46PM
		FS13-0'				
		E407200-06				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
-Xylene	ND	0.0250	1	07/24/24	07/26/24	
,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		99.6 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.9 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		99.6 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
Surrogate: n-Nonane		94.6 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ar	nalyst: DT		Batch: 2430116
Chloride	13100	200	10	07/25/24	07/25/24	



		sample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Nam Project Num Project Mana	ber: 2300	6 State Con 03-0002 ey Gioveng			<b>Reported:</b> 7/31/2024 12:22:46PM
		FS14-0'				
		E407200-07				
		Reporting				
Analyte	Result	Limit	Dilu	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	L	Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		99.2 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA	Batch: 2430093	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.1 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		99.2 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	3920	50.0	2	07/25/24	07/26/24	
Dil Range Organics (C28-C36)	1490	100	2	07/25/24	07/26/24	
Surrogate: n-Nonane		95.0 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2430116
Chloride	6380	100	5	07/25/24	07/25/24	



## Sample Data

		ample D	ara				
Matador Resources, LLC.	Project Name:		6 State Co	m TB			
5400 LBJ Freeway, Suite 1500	Project Numbe		23003-0002				Reported:
Dallas TX, 75240	Project Manager: Ashley Giovengo						7/31/2024 12:22:46PM
		FS15-0'					
		E407200-08					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2430093
Benzene	ND	0.0250		1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/26/24	
Toluene	ND	0.0250		1	07/24/24	07/26/24	
o-Xylene	0.0335	0.0250		1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500		1	07/24/24	07/26/24	
Total Xylenes	0.0335	0.0250		1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130		07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.4 %	70-130		07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130		07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099	
Diesel Range Organics (C10-C28)	4010	125		5	07/25/24	07/31/24	
Dil Range Organics (C28-C36)	1480	250		5	07/25/24	07/31/24	
Surrogate: n-Nonane		105 %	50-200		07/25/24	07/31/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2430116
Chloride	7800	200	1	10	07/25/24	07/25/24	



## Sample Data

		ample D	aca			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 2300	6 State Com )3-0002 ey Gioveng			<b>Reported:</b> 7/31/2024 12:22:46PM
		FS16-0'				
		E407200-09				
		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
p-Xylene	0.0400	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	0.0400	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		109 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		109 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/26/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/26/24	
Surrogate: n-Nonane		105 %	50-200	07/25/24	07/26/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	I	Analyst: DT		Batch: 2430116
Chloride	20900	400	20	07/25/24	07/25/24	



	0	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		6 State Com 03-0002	ТВ		Reported:
Dallas TX, 75240	Project Mana		ey Giovengo		7/31/2024 12:22:46PM	
		FS17-0'				
		E407200-10				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Foluene	ND	0.0250	1	07/24/24	07/26/24	
p-Xylene	ND	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		99.7 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		107 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		99.7 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		92.1 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: DT		Batch: 2430116
Chloride	11000	200	10	07/25/24	07/25/24	



	S	Sample D	ata			
Matador Resources, LLC.	Project Nam	e: AO	6 State Com	TB		
5400 LBJ Freeway, Suite 1500	Project Num	ber: 230	03-0002			Reported:
Dallas TX, 75240	Project Man	ager: Ash	ley Giovengo	•		7/31/2024 12:22:46PM
		FS18-0'				
		E407200-11				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	Analyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	Batch: 2430099					
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		94.5 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: DT		Batch: 2430116

Chloride **14500** 200 10 07/25/24 07/25/24



	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	6 State Com T 03-0002 ey Giovengo	В		<b>Reported:</b> 7/31/2024 12:22:46PM
		FS19-0'				
		E407200-12				
Angles	Descrit	Reporting	Dilution	Durana	Austral	Nata
Analyte	Result	Limit	Dilution	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	alyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Foluene	ND	0.0250	1	07/24/24	07/26/24	
p-Xylene	ND	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	alyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		102 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: DT		Batch: 2430116
Chloride	8440	200	10	07/25/24	07/25/24	



	<b>D</b>	ample D	uu				
Matador Resources, LLC.	Project Name	: AO	6 State Cor	n TB			
5400 LBJ Freeway, Suite 1500	Project Numb		23003-0002				Reported:
Dallas TX, 75240	Project Manag	ger: Ash		7/31/2024 12:22:46PM			
		FS20-0'					
		E407200-13					
		Reporting					
Analyte	Result	Limit	Dilı	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	BA		Batch: 2430093
Benzene	ND	0.0250		1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/26/24	
Toluene	ND	0.0250		1	07/24/24	07/26/24	
p-Xylene	ND	0.0250		1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500		1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250		1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130		07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130		07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.3 %	70-130		07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130		07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099	
Diesel Range Organics (C10-C28)	ND	25.0		1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0		1	07/25/24	07/27/24	
Surrogate: n-Nonane		91.5 %	50-200		07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2430116
Chloride	13300	200	1	0	07/25/24	07/25/24	



	<b>D</b>	ample D	uu					
Matador Resources, LLC.	·	Project Name: AO 6 State Com TB						
5400 LBJ Freeway, Suite 1500	Project Numb						Reported:	
Dallas TX, 75240	Project Manag	ger: Ash	ley Gioven	igo			7/31/2024 12:22:46PM	
		FS21-0'						
		E407200-14						
		Reporting						
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: BA		Batch: 2430093	
Benzene	ND	0.0250		1	07/24/24	07/26/24		
Ethylbenzene	ND	0.0250		1	07/24/24	07/26/24		
Toluene	ND	0.0250		1	07/24/24	07/26/24		
p-Xylene	ND	0.0250		1	07/24/24	07/26/24		
o,m-Xylene	ND	0.0500		1	07/24/24	07/26/24		
Fotal Xylenes	ND	0.0250		1	07/24/24	07/26/24		
Surrogate: Bromofluorobenzene		103 %	70-130		07/24/24	07/26/24		
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		07/24/24	07/26/24		
Surrogate: Toluene-d8		100 %	70-130		07/24/24	07/26/24		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA			Batch: 2430093	
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/26/24		
Surrogate: Bromofluorobenzene		103 %	70-130		07/24/24	07/26/24		
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		07/24/24	07/26/24		
Surrogate: Toluene-d8		100 %	70-130		07/24/24	07/26/24		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2430099	
Diesel Range Organics (C10-C28)	183	25.0		1	07/25/24	07/27/24		
Dil Range Organics (C28-C36)	154	50.0		1	07/25/24	07/27/24		
Surrogate: n-Nonane		96.7 %	50-200		07/25/24	07/27/24		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2430116	
Chloride	13800	200	1	10	07/25/24	07/25/24		



	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manag	ber: 2300	6 State Com ' 03-0002 ey Giovengo			<b>Reported:</b> 7/31/2024 12:22:46PM
		FS22-0'				
		E407200-15				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA			Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		105 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		96.4 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2430116
Chloride	8020	200	10	07/25/24	07/25/24	



		ample D	uu				
Matador Resources, LLC.	Project Name:						
5400 LBJ Freeway, Suite 1500	Project Numbe		23003-0002				Reported:
Dallas TX, 75240	Project Manag	er: Ash	ley Gioven	igo			7/31/2024 12:22:46PM
		FS23-0'					
		E407200-16					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	BA		Batch: 2430093
Benzene	ND	0.0250		1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250		1	07/24/24	07/26/24	
Toluene	ND	0.0250		1	07/24/24	07/26/24	
-Xylene	ND	0.0250		1	07/24/24	07/26/24	
,m-Xylene	ND	0.0500		1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250		1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130		07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130		07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2430093	
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130		07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130		07/24/24	07/26/24	
urrogate: Toluene-d8		101 %	70-130		07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2430099
Diesel Range Organics (C10-C28)	69.8	25.0		1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0		1	07/25/24	07/27/24	
Surrogate: n-Nonane		98.3 %	50-200		07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	DT		Batch: 2430116
Chloride	5760	100		5	07/25/24	07/25/24	


	S	ample D	ata			
Matador Resources, LLC.	Project Name	e: AO	6 State Com TE	3		
5400 LBJ Freeway, Suite 1500	Project Numl		03-0002	Reported:		
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			7/31/2024 12:22:46PM
		FS24-0'				
		E407200-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
Toluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORC	) mg/kg	mg/kg	Anal	yst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		91.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2430116
			1.0	07/05/04	07/06/04	

Chloride **8860** 200 10 07/25/24 07/26/24



	N N	sample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 2300	6 State Com 03-0002 ley Giovengo			<b>Reported:</b> 7/31/2024 12:22:46PM
		FS25-0'				
		E407200-18				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
oluene	ND	0.0250	1	07/24/24	07/26/24	
-Xylene	ND	0.0250	1	07/24/24	07/26/24	
,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
'urrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
urrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	07/24/24	07/26/24	
urrogate: Toluene-d8		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
'urrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		102 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	65.5	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
urrogate: n-Nonane		96.7 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2430116
Chloride	9100	200	10	07/25/24	07/26/24	



	D	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	6 State Com T 03-0002 ey Giovengo	ΈB		<b>Reported:</b> 7/31/2024 12:22:46PM
		FS26-0'				
		E407200-19				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	alyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
oluene	ND	0.0250	1	07/24/24	07/26/24	
o-Xylene	ND	0.0250	1	07/24/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07/24/24	07/26/24	
urrogate: Toluene-d8		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		101 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		90.7 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2430116
Chloride	7600	200	10	07/25/24	07/26/24	



	a	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 2300	6 State Com 13-0002 ey Giovengo	<b>Reported:</b> 7/31/2024 12:22:46PM		
		FS27-0'				
		E407200-20				
		Reporting				
Analyte	Result	Limit	Diluti	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	nalyst: BA		Batch: 2430093
Benzene	ND	0.0250	1	07/24/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/26/24	
foluene	ND	0.0250	1	07/24/24	07/26/24	
p-Xylene	ND	0.0250	1	07/24/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: BA		Batch: 2430093
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/26/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/24/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	07/24/24	07/26/24	
Surrogate: Toluene-d8		100 %	70-130	07/24/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2430099
Diesel Range Organics (C10-C28)	25.8	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		101 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	nalyst: DT		Batch: 2430116
Chloride	11700	200	10	07/25/24	07/26/24	



### QC Summary Data

		QU SI	1111111	ITY Data	a						
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		O 6 State Con 003-0002	n TB				Reported:		
Dallas TX, 75240		Project Manager:	As	shley Gioveng	go			7/	7/31/2024 12:22:46PM		
		Volatile Organic	Compo	unds by EI	PA 82601	B			Analyst: BA		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2430093-BLK1)							Prepared: 0	7/24/24 Ana	lyzed: 07/26/24		
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	0.527		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130					
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130					
LCS (2430093-BS1)							Prepared: 0	7/24/24 Ana	lyzed: 07/26/24		
Benzene	2.52	0.0250	2.50		101	70-130					
Ethylbenzene	2.60	0.0250	2.50		104	70-130					
Toluene	2.43	0.0250	2.50		97.1	70-130					
o-Xylene	2.65	0.0250	2.50		106	70-130					
p,m-Xylene	5.19	0.0500	5.00		104	70-130					
Total Xylenes	7.83	0.0250	7.50		104	70-130					
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.8	70-130					
Surrogate: Toluene-d8	0.503		0.500		101	70-130					
Matrix Spike (2430093-MS1)				Source:	E407200-(	06	Prepared: 0	7/24/24 Ana	lyzed: 07/26/24		
Benzene	2.63	0.0250	2.50	ND	105	48-131					
Ethylbenzene	2.71	0.0250	2.50	ND	108	45-135					
Toluene	2.52	0.0250	2.50	ND	101	48-130					
o-Xylene	2.70	0.0250	2.50	ND	108	43-135					
p,m-Xylene	5.24	0.0500	5.00	ND	105	43-135					
Total Xylenes	7.95	0.0250	7.50	ND	106	43-135					
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		97.9	70-130					
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130					
Matrix Spike Dup (2430093-MSD1)				Source:	E407200-(	06	Prepared: 0	7/24/24 Ana	lyzed: 07/26/24		
Benzene	2.58	0.0250	2.50	ND	103	48-131	2.05	23			
Ethylbenzene	2.68	0.0250	2.50	ND	107	45-135	0.946	27			
Toluene	2.49	0.0250	2.50	ND	99.6	48-130	1.24	24			
o-Xylene	2.74	0.0250	2.50	ND	110	43-135	1.51	27			
p,m-Xylene	5.36	0.0500	5.00	ND	107	43-135	2.17	27			
Total Xylenes	8.10	0.0250	7.50	ND	108	43-135	1.94	27			
Surrogate: Bromofluorobenzene	0.540		0.500		108	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130					
Surrogate: Toluene-d8	0.502		0.500		100	70-130					



## **QC Summary Data**

		<b>X</b> U N		il y Data	4				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Number: 23003			O 6 State Com 3003-0002 shley Gioveng					<b>Reported:</b> 7/31/2024 12:22:46PM
	No	onhalogenated O	rganics	by EPA 801	15D - Gl	RO			Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430093-BLK1)							Prepared: 0	7/24/24 /	Analyzed: 07/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.5	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.6	70-130			
LCS (2430093-BS2)							Prepared: 0	7/24/24 A	Analyzed: 07/26/24
Gasoline Range Organics (C6-C10)	51.4	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.532		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
Matrix Spike (2430093-MS2)				Source:	E407200-	06	Prepared: 0	7/24/24 A	Analyzed: 07/26/24
Gasoline Range Organics (C6-C10)	51.5	20.0	50.0	ND	103	70-130			
Surrogate: Bromofluorobenzene	0.534		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.501		0.500		100	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
Matrix Spike Dup (2430093-MSD2)				Source:	E407200-	06	Prepared: 0	7/24/24 A	Analyzed: 07/26/24
Gasoline Range Organics (C6-C10)	51.4	20.0	50.0	ND	103	70-130	0.225	20	
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			



## **QC Summary Data**

		QC D	u111111	ary Data	а				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2	AO 6 State Con 3003-0002 Ashley Gioveng					<b>Reported:</b> 7/31/2024 12:22:46PM
	Nonh	alogenated Org	anics by	EPA 8015I	) - DRO	/ORO			Analyst: KM
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2430099-BLK1)							Prepared: 0	7/25/24 A	analyzed: 07/26/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	50-200			
LCS (2430099-BS1)							Prepared: 0	7/25/24 A	analyzed: 07/26/24
Diesel Range Organics (C10-C28)	228	25.0	250		91.3	38-132			
Surrogate: n-Nonane	53.8		50.0		108	50-200			
Matrix Spike (2430099-MS1)				Source:	E407200-	08	Prepared: 0	7/25/24 A	analyzed: 07/29/24
Diesel Range Organics (C10-C28)	3010	125	250	4010	NR	38-132			M4
Surrogate: n-Nonane	54.1		50.0		108	50-200			
Matrix Spike Dup (2430099-MSD1)				Source:	E407200-	08	Prepared: 0	7/25/24 A	analyzed: 07/29/24
Diesel Range Organics (C10-C28)	2880	125	250	4010	NR	38-132	4.35	20	M4
Surrogate: n-Nonane	56.9		50.0		114	50-200			



### **QC Summary Data**

			••	<i>J</i> –					
Matador Resources, LLC.	1 Tojeet T tallet			O 6 State Con	n TB		Reported:		
5400 LBJ Freeway, Suite 1500		Project Number:	2.	3003-0002					
Dallas TX, 75240		Project Manager	: А	shley Gioveng	go				7/31/2024 12:22:46PM
		Anions	by EPA	<b>300.0/9056</b> A	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430116-BLK1)							Prepared: 0	7/25/24	Analyzed: 07/25/24
Chloride	ND	20.0							
LCS (2430116-BS1)							Prepared: 0	7/25/24	Analyzed: 07/25/24
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2430116-MS1)				Source:	E407200-	02	Prepared: 0	7/25/24	Analyzed: 07/25/24
Chloride	11200	200	250	11300	NR	80-120			M4
Matrix Spike Dup (2430116-MSD1)				Source:	E407200-(	02	Prepared: 0	7/25/24	Analyzed: 07/25/24
Chloride	10200	200	250	11300	NR	80-120	9.86	20	M4

QC Summary Report Comment:

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



Matador Resources, LLC.	Project Name:	AO 6 State Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/31/24 12:22

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

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

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

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





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	Clier	nt Inform	ation		Invoice Information	<u>ו</u>			La	b Us	e Onl	y				TA	T			State	е
Project: Project N	Matador Prod AO 6 51 Manager: Asl	hlev Giov	<u>om T F</u> engo	3	Company: Ensolum LLC Address: 3122 National Parks Hwy City, State, Zip: Carlsbad NM, 88220			ddress:     3122 National Parks Hwy     E407200     23003-0002       ty, State, Zip:     Carlsbad NM, 88220									3D	Std x	x	CO UT	
City, Stat Phone:	3122 Nation te, Zip: Carls 575-988-005 giovengo@e	bad NM, 5	88220		Phone: 575-988-0055 Email: agiovengo@ensolum.com Miscellaneous:			015	8015		Anal	ysis :	and	Met	hod				SDWA Complian		F
<u></u>				Sample Info	rmation			Q py 8	to by 8	8021	8260	300.0	MN.	хт. 20	Metals				PWSID #		_
Time Sampled	Date Sampled	Matrix	No. of Containers		Sample ID	Field Filter	Lab Numbe		GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals					Remarks	
9:11	7/23/2024	S	1		FS08 - 0'		1						x								
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9:31	7/23/2024	S	1		FS12 - 0'		5						x								
9:34	7/23/2024	S	1		FS13 - 0'		6						x								
9:40	7/23/2024	S	1		FS14 - 0'		7						x								
9:42	7/23/2024	S	1		FS15 - 0'		8						x								
9:48	7/23/2024	S	1		FS16 - 0'		q						x								
9:56	7/23/2024	s	1		FS17 - 0'		10						x								

### Additional Instructions: Please CC: cburton@ensolum.com, agiovengo@ensolum.com, iestrella@ensolum.com, bdeal@ensolum.com, chamilton@ensolum.com, bsimmons@ensolum.com

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

Date, 7/21/2	Time 7:70	Atowelle Gonza	les 7-24-24	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days
Date 7-24-24	Time KJJJ	Received by (Signature)	Date 7.24.24	Time 1700	Lab Use Only Received on ice:
Date 7.24.24	Time 2400	Received by: (Signature)	Date 7-25-24	Time 0830	<u>T1                                     </u>
Date	Time	Received by: (Signature)	Date	Time	AVG Temp °C
A - Aqueous, O - Oth	er		Container Typ	e: g - glass, p - p	oly/plastic, ag - amber glass, v - VOA
r results are repo	rted unless othe	r arrangements are made. Hazardou	us samples will be retu	rned to client or d	fisposed of at the client expense. The report for the analysis of the above
les received by th	e laboratory with	h this COC. The liability of the labora	atory is limited to the	amount paid for or	n the report.
		Pag	e 31 of 33		envirotec
	$7/2 Y/2 Y$ Date $7-2 Y-2 Y$ Date $7 \cdot 2 Y \cdot 2 Y$ Date $A \cdot Aqueous, 0 - 0 th$ er results are repo	Date 7-24-24 Date 7-24-24 Time 7-24-24 Time 7-24-20 Time 7-24-20 Time 7-24-20 Time 7-24-20 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time 7-24-24 Time Time 7-24-24 Time 7-24-24 Time Time 7-24-24 Time Time 7-24-24 Time Time Time 7-24-26 Time Time Time Time Time Time Time Time Time Time Time Time Time	Date       Time       Received by: (Signature)         Date       Time       Received by: (Signature) <b>7-14-14 14035</b> Received by: (Signature)         Date       Time       Received by: (Signature) <b>7-14-14 14035</b> Received by: (Signature)         Date       Time       Received by: (Signature)         A - Aqueous, O - Other       Erresults are reported unless other arrangements are made. Hazardon les received by the laboratory with this COC. The liability of the laboratory	Date       Time       Received by (Signature)       Date         7-J4-J4       103.5       1	7/21/21       7: 70       Visibility (Signature)       Date       7.24.24       1000         Date       Time       Received by (Signature)       Date       7.24.24       1700         Date       Time       Received by: (Signature)       Date       Time       7.24.24       1700         Date       Time       Received by: (Signature)       Date       Time       7.24.24       1700         Date       Time       Received by: (Signature)       Date       Time       7.24.24       0830         Date       Time       Received by: (Signature)       Date       Time       7.25.24       0830         Date       Time       Received by: (Signature)       Date       Time       7.24.24       0830         Date       Time       Received by: (Signature)       Date       Time       7.24.24       0830         Date       Time       Received by: (Signature)       Date       Time       7.24.24       0830         Date       Time       Received by: (Signature)       Date       Time       7.24.24       0830         Date       Time       Received by: (Signature)       Date       Time       7.24.24       0.25.24       0.25.24       0.25.24       0.25.24 <td< td=""></td<>

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10:07	7/23/2024	s	1		F	S21 - 0'		)	4						x										
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9:16	7/23/2024	s	1		F	\$23 - 0'			6						x										
9:17	7/23/2024	s	1		F	S24 - 0'			7						x										1
9:18	7/23/2024	s	1		F	S25 - 0'			8						x										
9:27	7/23/2024	s	1		F	S26 - 0'			9						x										
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### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

	Matador Resources, LLC. Da	te Received:	07/25/24	08.30	Work Order ID: E407200
Client:					Work Order ID: E407200
Phone: Email:		te Logged In: e Date:	07/24/24	15:46 17:00 (4 day TAT)	Logged In By: Alexa Michaels
Ellian.		e Date.	07/31/24	17.00 (4 day 1A1)	
Chain of	f Custody (COC)				
	the sample ID match the COC?		Yes		
2. Does t	the number of samples per sampling site location match t	he COC	Yes		
3. Were s	samples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	Couier
	ne COC complete, i.e., signatures, dates/times, requested	analyses?	Yes		
5. Were a	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Comments/Resolution
Sample '	Turn Around Time (TAT)				
-	e COC indicate standard TAT, or Expedited TAT?		Yes		AO 6 State Com TB has been separated
Sample	· •				into multiple WO due to high sample
	sample cooler received?		Yes		volume. WO are E407200, E407201 and
	was cooler received in good condition?		Yes		E407202.
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes		
	custody/security seals present?		No		
	s, were custody/security seals intact?		NA		
12. Was tl	he sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec		Yes		
13. If no	minutes of sampling visible ice, record the temperature. Actual sample tem	perature: <u>4°</u>	<u>C</u>		
	<u>Container</u>				
	aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
	e head space less than 6-8 mm (pea sized or less)?		NA		
	a trip blank (TB) included for VOC analyses?		NA		
	non-VOC samples collected in the correct containers?	11 4 . 10	Yes		
	appropriate volume/weight or number of sample containers	conected?	Yes		
Field La		tion			
	field sample labels filled out with the minimum information Sample ID?		Yes		
	Date/Time Collected?		Yes		
(	Collectors name?		Yes		
-	Preservation				
	the COC or field labels indicate the samples were present	ved?	No		
	sample(s) correctly preserved?		NA		
24. Is lat	o filteration required and/or requested for dissolved metal	s?	No		
Multiph	ase Sample Matrix				
26. Does	the sample have more than one phase, i.e., multiphase?		No		
27. If yes	s, does the COC specify which phase(s) is to be analyzed	?	NA		
Subcont	ract Laboratory				
	samples required to get sent to a subcontract laboratory?		No		
	a subcontract laboratory specified by the client and if so	1.0	NA	Subcontract Lab	

Date

envirotech Inc.

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





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Matador Resources, LLC.

Project Name: AO 6

AO 6 State Com TB

Work Order: E407201

Job Number: 23003-0002

Received: 7/25/2024

Revision: 2

Report Reviewed By:

Walter Hinchman Laboratory Director 7/31/24

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: 7/31/24

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

Project Name: AO 6 State Com TB Workorder: E407201 Date Received: 7/25/2024 8:30:00AM

Ashley Giovengo,



Page 122 of 211

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2024 8:30:00AM, under the Project Name: AO 6 State Com TB.

The analytical test results summarized in this report with the Project Name: AO 6 State Com TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
FS28-0'	6
FS29-0'	7
FS30-0'	8
FS31-0'	9
FS32-0'	10
FS33-0'	11
FS34-0'	12
FS35-0'	13
FS36-0'	14
FS37-0'	15
FS38-0'	16
FS39-0'	17
FS40-0'	18
FS41-0'	19
FS42-0'	20
FS43-0'	21
FS44-0'	22
FS45-0'	23
FS46-0'	24
FS47-0'	25

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# Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organics by EPA 8021B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

### Sample Summary

		Sample Sum	mary			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Number: Project Manager:	AO 6 State Com TI 23003-0002 Ashley Giovengo	3	<b>Reported:</b> 07/31/24 15:17		
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
`S28-0'	E407201-01A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S29-0'	E407201-02A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S30-0'	E407201-03A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S31-0'	E407201-04A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
'S32-0'	E407201-05A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
\$33-0'	E407201-06A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S34-0'	E407201-07A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S35-0'	E407201-08A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S36-0'	E407201-09A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S37-0'	E407201-10A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S38-0'	E407201-11A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S39-0'	E407201-12A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
'S40-0'	E407201-13A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
'S41-0'	E407201-14A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
'S42-0'	E407201-15A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S43-0'	E407201-16A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S44-0'	E407201-17A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S45-0'	E407201-18A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S46-0'	E407201-19A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	
S47-0'	E407201-20A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.	



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Matador Resources, LLC.	Project Name	e: AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Num	ber: 230	03-0002			Reported:
Dallas TX, 75240	Project Mana	ager: Ash	ley Giovengo			7/31/2024 3:17:57PN
		FS28-0'				
		E407201-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Analyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/29/24	
Toluene	ND	0.0250	1	07/24/24	07/29/24	
p-Xylene	ND	0.0250	1	07/24/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/29/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		89.4 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	st: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	71.0	25.0	1	07/25/24	07/29/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/29/24	
Surrogate: n-Nonane		128 %	50-200	07/25/24	07/29/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: DT		Batch: 2430117
Chloride	11500	200	10	07/25/24	07/26/24	



	50	ample D	ala			
Matador Resources, LLC.	Project Name:	AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numbe	er: 230	03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS29-0'				
		E407201-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/29/24	
Toluene	ND	0.0250	1	07/24/24	07/29/24	
o-Xylene	ND	0.0250	1	07/24/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		92.5 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	121	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	55.6	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		100 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2430117
Chloride	11200	200	10	07/25/24	07/26/24	



	0	ample D	ala			
Matador Resources, LLC.	Project Name	:: AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230	03-0002			Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS30-0'				
		E407201-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		92.3 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	:: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	29.0	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		90.2 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: DT		Batch: 2430117
Chloride	16300	200	10	07/25/24	07/26/24	



	5	ample D	ala			
Matador Resources, LLC.	Project Name:		6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb		03-0002		Reported:	
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS31-0'				
		E407201-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
thylbenzene	ND	0.0250	1	07/24/24	07/30/24	
oluene	ND	0.0250	1	07/24/24	07/30/24	
-Xylene	ND	0.0250	1	07/24/24	07/30/24	
,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
otal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
urrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	36.9	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
urrogate: n-Nonane		92.9 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2430117
	mg/kg	mg/ kg		Jan 21		Buten: 2150117



	0	ample D	ala			
Matador Resources, LLC.	Project Name		6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numl		03-0002			Reported:
Dallas TX, 75240	Project Mana	iger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS32-0'				
		E407201-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		86.5 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430117
Chloride	8240	100	5	07/25/24	07/26/24	



	5	ample D	ala			
Matador Resources, LLC.	Project Name:	AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb	er: 230	03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS33-0'				
		E407201-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
o-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		91.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430117
Chloride	5540	40.0	2	07/25/24	07/26/24	



	50	ample D	ala			
Matador Resources, LLC.	Project Name:	AO	6 State Com TI	В		
5400 LBJ Freeway, Suite 1500	Project Numbe	er: 230	03-0002			Reported:
Dallas TX, 75240	Project Manag	er: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS34-0'				
		E407201-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/29/24	
Toluene	ND	0.0250	1	07/24/24	07/29/24	
o-Xylene	ND	0.0250	1	07/24/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/29/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		171 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2430117
Chloride	8440	100	5	07/25/24	07/26/24	



	50	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	6 State Com TB 03-0002 ley Giovengo			<b>Reported:</b> 7/31/2024 3:17:57PM
		FS35-0'				
		E407201-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Foluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		91.0 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	:: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		80.8 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: DT		Batch: 2430117
Chloride	9730	200	10	07/25/24	07/26/24	



	0	ample D	ala			
Matador Resources, LLC.	Project Name		AO 6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb		03-0002			Reported:
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS36-0'				
		E407201-09				
		Reporting				
Analyte	Result	Limit	Dilutio	n Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	An	alyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		96.5 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	alyst: DT		Batch: 2430117
Chloride	1910	20.0	1	07/25/24	07/26/24	



	D.	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numb		6 State Com TB )3-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ey Giovengo	7/31/2024 3:17:57PM		
		FS37-0'				
		E407201-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.4 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		83.8 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430117
Chloride	7300	40.0	2	07/25/24	07/26/24	



	0	ample D	ala			
Matador Resources, LLC.	Project Name	:: AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230	03-0002	Reported:		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS38-0'				
		E407201-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Foluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.2 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		92.2 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: DT		Batch: 2430117
Chloride	11800	200	10	07/25/24	07/26/24	



	D.	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		AO 6 State Com TB 23003-0002			Reported:
Dallas TX, 75240	Project Manag		ley Giovengo	7/31/2024 3:17:57PM		
		FS39-0'				
		E407201-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		89.9 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		89.9 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	ıt: DT		Batch: 2430117
Chloride	11400	200	10	07/25/24	07/26/24	



	3	ample D	ลเล			
Matador Resources, LLC.	Project Name	: AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230	03-0002	Reported:		
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS40-0'				
		E407201-13				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.5 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		87.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430117
Chloride	9380	100	5	07/25/24	07/26/24	



	5	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Manaş	er: 230	6 State Com TB 03-0002 ley Giovengo	l		<b>Reported:</b> 7/31/2024 3:17:57PM
		FS41-0'				
		E407201-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
urrogate: 4-Bromochlorobenzene-PID		89.7 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
urrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
'urrogate: n-Nonane		95.0 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: DT		Batch: 2430117
Chloride	5560	40.0	2	07/25/24	07/26/24	



	0	ample D	ala			
Matador Resources, LLC.	Project Name	:: AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230	03-0002	Reported:		
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS42-0'				
		E407201-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.1 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		92.1 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430117
Chloride	9670	100	5	07/25/24	07/26/24	



	Si	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numbe Project Manag	er: 230	6 State Com Tl 03-0002 ley Giovengo	В		<b>Reported:</b> 7/31/2024 3:17:57PM
		FS43-0'				
		E407201-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Foluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.8 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		87.2 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: DT		Batch: 2430117
Chloride	9520	100	5	07/25/24	07/26/24	



	3	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	er: 230	6 State Com TB 03-0002 ley Giovengo			<b>Reported:</b> 7/31/2024 3:17:57PM
		FS44-0'				
		E407201-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		89.8 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Gurrogate: n-Nonane		88.4 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2430117
Chloride	9690	100	5	07/25/24	07/26/24	



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Matador Resources, LLC.	Project Name	: AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb	er: 230	03-0002			Reported:
Dallas TX, 75240	Project Manag	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS45-0'				
		E407201-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	yst: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		95.3 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: DT		Batch: 2430117
Chloride	5930	40.0	2	07/25/24	07/26/24	



	0	ample D	ala			
Matador Resources, LLC.	Project Name	:: AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Numb	ber: 230	Reported:			
Dallas TX, 75240	Project Mana	ger: Ash	ley Giovengo			7/31/2024 3:17:57PM
		FS46-0'				
		E407201-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.6 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		92.1 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430117
Chloride	5400	40.0	2	07/25/24	07/26/24	


	3	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 230	6 State Com TB 03-0002 ley Giovengo			<b>Reported:</b> 7/31/2024 3:17:57PM
		FS47-0'				
		E407201-20				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Benzene	ND	0.0250	1	07/24/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/24/24	07/30/24	
Toluene	ND	0.0250	1	07/24/24	07/30/24	
p-Xylene	ND	0.0250	1	07/24/24	07/30/24	
o,m-Xylene	ND	0.0500	1	07/24/24	07/30/24	
Fotal Xylenes	ND	0.0250	1	07/24/24	07/30/24	
Surrogate: 4-Bromochlorobenzene-PID		90.3 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2430094
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		106 %	70-130	07/24/24	07/30/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2430098
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		91.6 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: DT		Batch: 2430117
Chloride	5630	40.0	2	07/25/24	07/26/24	



# **OC Summary Data**

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Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	O 6 State Con 3003-0002 shley Giovenş					<b>Reported:</b> 7/31/2024 3:17:57PM
		Volatile O	rganics l	by EPA 802	21B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430094-BLK1)							Prepared: 0'	7/24/24 /	Analyzed: 07/30/24
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
p-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.8	70-130			
LCS (2430094-BS1)							Prepared: 0'	7/24/24 A	Analyzed: 07/30/24
Benzene	5.03	0.0250	5.00		101	70-130			
Ethylbenzene	4.79	0.0250	5.00		95.8	70-130			
Toluene	5.00	0.0250	5.00		100	70-130			
o-Xylene	4.88	0.0250	5.00		97.6	70-130			
p,m-Xylene	9.83	0.0500	10.0		98.3	70-130			
Total Xylenes	14.7	0.0250	15.0		98.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.35		8.00		91.8	70-130			
LCS Dup (2430094-BSD1)							Prepared: 0'	7/24/24 /	Analyzed: 07/30/24
Benzene	5.03	0.0250	5.00		101	70-130	0.000996	20	
Ethylbenzene	4.80	0.0250	5.00		95.9	70-130	0.105	20	
Toluene	5.00	0.0250	5.00		100	70-130	0.0430	20	
p-Xylene	4.88	0.0250	5.00		97.7	70-130	0.0942	20	
p,m-Xylene	9.86	0.0500	10.0		98.6	70-130	0.236	20	
Total Xylenes	14.7	0.0250	15.0		98.3	70-130	0.189	20	
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.9	70-130			



# **QC Summary Data**

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Matador Resources, LLC.		Project Name:		O 6 State Cor	n TB				Reported:
5400 LBJ Freeway, Suite 1500		Project Number		3003-0002					
Dallas TX, 75240		Project Manage	r: A	shley Gioven	go				7/31/2024 3:17:57PM
	No	onhalogenated	Organics	by EPA 80	15D - G	RO			Analyst: BA
Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430094-BLK1)							Prepared: 0	7/24/24	Analyzed: 07/30/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			
LCS (2430094-BS2)							Prepared: 0	7/24/24	Analyzed: 07/30/24
Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		98.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			
LCS Dup (2430094-BSD2)							Prepared: 0	7/24/24	Analyzed: 07/30/24
Gasoline Range Organics (C6-C10)	42.4	20.0	50.0		84.9	70-130	15.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			



# **QC Summary Data**

		QU D		ii y Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	O 6 State Con 6003-0002 shley Gioveng					<b>Reported:</b> 7/31/2024 3:17:57PM
Dunus 1A, 152-10	Nonh	alogenated Org		, ,		/ORO			Analyst: KM
	1 (OIIII		units by			ono			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430098-BLK1)							Prepared: 0	7/25/24 A	nalyzed: 07/27/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.5		50.0		103	50-200			
LCS (2430098-BS1)							Prepared: 0	7/25/24 A	analyzed: 07/29/24
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	53.9		50.0		108	50-200			
Matrix Spike (2430098-MS1)				Source:	E407201-(	01	Prepared: 0	7/25/24 A	analyzed: 07/29/24
Diesel Range Organics (C10-C28)	256	25.0	250	71.0	74.0	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			
Matrix Spike Dup (2430098-MSD1)				Source:	E407201-(	01	Prepared: 0	7/25/24 A	analyzed: 07/29/24
Diesel Range Organics (C10-C28)	285	25.0	250	71.0	85.8	38-132	10.9	20	
Surrogate: n-Nonane	54.0		50.0		108	50-200			



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		O 6 State Con 3003-0002	n TB				Reported:
Dallas TX, 75240		Project Manager		shley Gioveng	go				7/31/2024 3:17:57PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	۸				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430117-BLK1)							Prepared: 0	7/25/24 A	analyzed: 07/26/24
Chloride	ND	20.0							
LCS (2430117-BS1)							Prepared: 0	7/25/24 A	analyzed: 07/26/24
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2430117-MS1)				Source:	E407201-0	)1	Prepared: 0	7/25/24 A	analyzed: 07/26/24
Chloride	10400	200	250	11500	NR	80-120			M4
Matrix Spike Dup (2430117-MSD1)				Source:	E407201-(	)1	Prepared: 0	7/25/24 A	analyzed: 07/26/24
Chloride	13200	200	250	11500	681	80-120	24.5	20	M4, R3

QC Summary Report Comment:

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



_		Demitions		
Γ	Matador Resources, LLC.	Project Name:	AO 6 State Com TB	
	5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
	Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/31/24 15:17

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

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

ND Analyte NOT DETECTED at or above the reporting limit

- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



# Released to Imaging: 8/28/2024 3:59:54 PM

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#### **Chain of Custody**

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Client: N	Aatador Prod	uction Co	ompar	V		ompany: Ensolum LLC			_ Lab	WO#	!			Num			1D	2D	3D		NIV	л со	UT	тх	_
	A065			TB	–	ddress: 3122 National Park			_ E'	407	201		23	003	8-00	<b>2</b> 00				×	×				4
	<u> Aanager: Asl</u>					ty, State, Zip: Carlsbad NM	<u>, 88220</u>		-1					<u> </u>											_
	3122 Nation					one: 575-988-0055							Ana	lysis	and	Met	hod					EPA Pr	ogran	n	_
	e, Zip: Carls		88220	. <u></u>		mail: agiovengo@ensolur	n.com		-											Ľ	SDWA	CV	VA	RCRA	-
	<u>575-988-005</u>				Mi	scellaneous:																<u> </u>			_
:mail: a	giovengo@ei	nsolum.c	om																		omplia WSID #		Y	orin	-
					ple Informat	ion				by 8015	by 8015	021	3	0.00	ξ	ř,	etals			Η	VVSID #	<u>'I</u>			-
Time								ਤ ਸ਼	lah	- ORO	l Sa	by 8	0 8	ide	ż	1005	8 M					Rem	arks		
Time Sampled	Date Sampled	Matrix	No. o Contain						Lab Number	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	тсед 1005 - ТХ	RCRA 8 Metals								_
9:33	7/23/2024	S	1			FS28 - 0'			1						x								_		3_of_S
9:38	7/23/2024	S	1			FS29 - 0'			ર						x										
9:44	7/23/2024	S	1			FS30 - 0'			3						x										]
9:46	7/23/2024	S	1			FS31 - 0'			4						x	_									1
9:55	7/23/2024	S	1			FS32 - 0'			5						x										]
9:58	7/23/2024	S	1			F\$33 - 0'		ľ	6						x										1
10:03	7/23/2024	S	1			FS34 - 0'			7						x										
10:06	7/23/2024	S	1			FS35 - 0'			8						x										1
10:11	7/23/2024	S	1			FS36 - 0'			9						x										1
10:32	7/23/2024	S	1			FS37 - 0'			10						x										1
Additio	al Instructio	ns: Plea	ase CC	: cburton@e	ensolum.con	n, agiovengo@ensolum.com	m, iestro	ella@	ensolu	m.coi	m, bd	leal@	Pens	olun	n.con	n, ch	amil	ton@	Penso	olum.c	:om,				-
<b>bsimmo</b> , (field sam	ns@ensolum	n.com		_		nat tampering with or intentionally mi										-						<u>n.</u>			-
	ed by: (Signatur	re)		ate 7/24/24	Time 7:30	Acceived by: (Signature) Michelle Gonz	aleç	Date	<i>4-</i> 24	Time	60	0			sample	d or re	ceived				be receive				1
	ed by: (Signatu		1	7.24.24	Time 1635	Received by: (Signature)		Date	4.14	Time	70				Rece			ice:		ib Use )/ N	Only				1
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Sample Ma	trix: S - Soil, Sd - S	olid, Sg - Slu	dge, A - /	queous, <b>O</b> - Oth	er			Conta	iner Typ	pe: g -	glass,	<u>, p - r</u>	boly/						v - VO	A					
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#### **Chain of Custody**

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	Clier	nt Inform	ation			Invoice Informatio	n		1		Lat	b Us	e On	ly				TA	Т		State	]
Client: M	atador Prod			v		mpany: Ensolum LLC			Lab	wO#				Numl	ber		1D			Std	NM CO UT TX	
Project:	A0 6 4	State	(om	TB		dress: 3122 National Parks	Hwy		E4	07	·201				-900	2				x	x	
	anager: Asl				Cit	y, State, Zip: Carlsbad NM, 8	38220															
ddress:	3122 Nation	122 National Parks Hwy Phone: 575-988-0055							] [				Ana	lysis	and	Met	hod				EPA Program	
ity, State	e, Zip: Carls	bad NM,	88220		<u>En</u>	nail: agiovengo@ensolum.	com		] [												SDWA CWA RCRA	
hone: 5	75-988-005	5			Mis	cellaneous:			1													
mail: ag	iovengo@e	<u>nsolum.c</u>	om							ង	អ										Compliance Y or N	
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10:35	7/23/2024	S	1			FS39 - 0'			2						x							
10:36	7/23/2024	S	1			FS40 - 0'		ľ	3						x							
10:37	7/23/2024	S	1			FS41 - 0'		]	4						x							
10:43	7/23/2024	S	1			FS42 - 0'		1	5						x							
10:44	7/23/2024	S	1			FS43 - 0'		1	6						x							
10:38	7/23/2024	S	1			FS44 - 0'		1	7						x							
10:39	7/23/2024	S	1			FS45 - 0'		1	3						x							
10:40	7/23/2024	s	1			FS46 - 0'		1	٩						x							
10:45	7/23/2024	s	1			FS47 - 0'		9	0						x							
<b>bsimmor</b> I, (field samp Sampled by:	ls@ensolum ler), attest to the Cole Burton_	n.com e validity and	d authenti	icity of this samp	le. I am aware tha	, agiovengo@ensolum.com, t tampering with or intentionally misla	beling the	sample	ocation	, date d				n is cor	sidere	d frau	d and n	nay be	groun	ds for le	egal action.	
	ed by: (Signatu M		D	ate [/24/24	7:30	Mighelie (10052	les -	1.24.	24		<u>50C</u>	>				d or re	ceived p		in ice at	an avg t	t be received on ice the day they are temp above 0 but less than 6 °C on	
Relinquishe	d by: (Signatu	onsal	eg 1	7-24-24	Time 1635	Received by (Signature)	Da	*** 7.Y			<u>70</u>	0			Rece	ived	on id	:e:	$\sim$	b Use )/N	: Only	
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#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

	Matador Resources, LLC. Dat	te Received:	07/25/24 08	3:30	Work Order ID: E407201
hone:	(972) 371-5200 Dat	te Logged In:	07/24/24 15	5:53	Logged In By: Alexa Michaels
Email:		e Date:	07/31/24 17	7:00 (4 day TAT)	
Chain o	of Custody (COC)				
	the sample ID match the COC?		Yes		
2. Does	the number of samples per sampling site location match t	he COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier: C	Couier
4. Was t	he 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 i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes		Comments/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>				
6. Did th	he COC indicate standard TAT, or Expedited TAT?		Yes		AO 6 State Com TB has been separated
Sample	Cooler_				into multiple WO due to high sample
7. Was a	a sample cooler received?		Yes		volume. WO are E407200, E407201 and
8. If yes	, was cooler received in good condition?		Yes		E407202.
9. Was t	he sample(s) received intact, i.e., not broken?		Yes		
10. Wer	e custody/security seals present?		No		
11. If ye	es, were custody/security seals intact?		NA		
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec		Yes		
13 If no	minutes of sampling ovisible ice, record the temperature. Actual sample tem	nerature: 4º	C		
		perature. <u>+</u>	<u> </u>		
	<u>Container</u> aqueous VOC samples present?		No		
	VOC samples collected in VOA Vials?		NA		
15.110	-				
16. Is the	e nead space less than b-8 mm (pea sized or less)/		NA		
	e head space less than 6-8 mm (pea sized or less)? a trip blank (TB) included for VOC analyses?		NA NA		
17. Was	a trip blank (TB) included for VOC analyses?		NA		
17. Was 18. Are 1	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers?	collected?	NA Yes		
17. Was 18. Are 1 19. Is the	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers	collected?	NA		
17. Was 18. Are 1 19. Is the <u>Field La</u>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel_		NA Yes		
<ol> <li>Was</li> <li>Are 1</li> <li>Is the</li> <li>Field La</li> <li>Were</li> </ol>	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers		NA Yes		
17. Was 18. Are 19. Is the Field La 20. Were	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum informa Sample ID? Date/Time Collected?		NA Yes Yes		
17. Was 18. Are 19. Is the Field La 20. Were	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum informa Sample ID? Date/Time Collected? Collectors name?		NA Yes Yes Yes		
17. Was 18. Are 1 19. Is the Field La 20. Were Sample	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum informa Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u>	tion:	NA Yes Yes Yes Yes Yes		
17. Was 18. Are 19. Is the Field La 20. Were 3 5 6 5 5 6 5 5 6 7 7 7 7 7 7 7 7 7 7 7 7	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum informat Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were preservation	tion:	NA Yes Yes Yes Yes No		
17. Was 18. Are 19. Is the Field L2 20. Were 20. Were 21. Does 22. Are	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum informat Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were preser sample(s) correctly preserved?	tion: ved?	NA Yes Yes Yes Yes No NA		
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17. Was 18. Are 1 19. Is the <b>Field La</b> 20. Were 20. Were 21. Does 22. Are 1 24. Is lai <b>Multiph</b> 26. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum informat Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were preser sample(s) correctly preserved? b filteration required and/or requested for dissolved metal <u>nase Sample Matrix</u> s the sample have more than one phase, i.e., multiphase?	tion: ved? s?	NA Yes Yes Yes Yes No NA No		
17. Was 18. Are 1 19. Is the <b>Field La</b> 20. Were 20. Were 21. Does 22. Are 1 24. Is lai <b>Multiph</b> 26. Does	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum informa Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were preser sample(s) correctly preserved? b filteration required and/or requested for dissolved metal <u>mase Sample Matrix</u>	tion: ved? s?	NA Yes Yes Yes Yes No NA No		
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17. Was 18. Are : 19. Is the <b>Field La</b> 20. Were 20. Were 21. Does 22. Are : 24. Is lal <b>Multiph</b> 26. Does 27. If ye <b>Subcont</b> 28. Are :	a trip blank (TB) included for VOC analyses? non-VOC samples collected in the correct containers? e appropriate volume/weight or number of sample containers abel e field sample labels filled out with the minimum informat Sample ID? Date/Time Collected? Collectors name? <u>Preservation</u> s the COC or field labels indicate the samples were preser sample(s) correctly preserved? b filteration required and/or requested for dissolved metal <b>nase Sample Matrix</b> s the sample have more than one phase, i.e., multiphase? es, does the COC specify which phase(s) is to be analyzed	tion: ved? s? ?	NA Yes Yes Yes Yes No NA No		

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



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5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Matador Resources, LLC.

Project Name: AO 6

AO 6 State Com TB

Work Order: E407202

Job Number: 23003-0002

Received: 7/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 7/31/24

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: 7/31/24

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

Project Name: AO 6 State Com TB Workorder: E407202 Date Received: 7/25/2024 8:30:00AM

Ashley Giovengo,



Page 155 of 211

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/25/2024 8:30:00AM, under the Project Name: AO 6 State Com TB.

The analytical test results summarized in this report with the Project Name: AO 6 State Com TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS48-0'	5
FS49-0'	6
FS50-0'	7
FS51-0'	8
FS52-0'	9
FS53-0'	10
FS54-0'	11
FS55-0'	12
QC Summary Data	13
QC - Volatile Organic Compounds by EPA8260B	13
QC - Nonhalogenated Organics by EPA 8015D - GRO	14
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	15
QC - Anions by EPA 300.0/9056A	16
Definitions and Notes	17
Chain of Custody etc.	18

		Sampic Sum	illai y		
Matador Resources, LLC.		Project Name:	AO 6 State Com TE	3	Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23003-0002		Reporteu.
Dallas TX, 75240		Project Manager:	Ashley Giovengo		07/31/24 09:13
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS48-0'	E407202-01A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS49-0'	E407202-02A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS50-0'	E407202-03A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS51-0'	E407202-04A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS52-0'	E407202-05A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS53-0'	E407202-06A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS54-0'	E407202-07A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS55-0'	E407202-08A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.



	~	ampic D					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name Project Numb		AO 6 State Com TB 23003-0002				Reported:
Dallas TX, 75240	Project Mana		Ashley Giovengo				7/31/2024 9:13:56AM
		FS48-0'					
		E407202-01					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: IY	<i>t</i>		Batch: 2430107
Benzene	ND	0.0250	1	l	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	l	07/25/24	07/26/24	
Toluene	ND	0.0250	1	l	07/25/24	07/26/24	
p-Xylene	ND	0.0250	1	l	07/25/24	07/26/24	
o,m-Xylene	ND	0.0500	1	l	07/25/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	l	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130		07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/25/24	07/26/24	
Surrogate: Toluene-d8		97.3 %	70-130		07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst: IY	<i>I</i>		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	l	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130		07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		07/25/24	07/26/24	
Surrogate: Toluene-d8		97.3 %	70-130		07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	М		Batch: 2430097
Diesel Range Organics (C10-C28)	28.1	25.0	1	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	l	07/25/24	07/27/24	
Surrogate: n-Nonane		93.4 %	50-200		07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: W	/F		Batch: 2430113
Chloride	7730	200	1	0	07/25/24	07/25/24	





	S	Sample D	ata			
Matador Resources, LLC.	Project Nam	ne: AO	6 State Com TI			
5400 LBJ Freeway, Suite 1500	Project Num	nber: 230	03-0002			Reported:
Dallas TX, 75240	Project Man	ager: Ash	ley Giovengo			7/31/2024 9:13:56AM
		FS49-0'				
		E407202-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
p-Xylene	ND	0.0250	1	07/25/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	07/25/24	07/26/24	
Surrogate: Toluene-d8		98.3 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130	07/25/24	07/26/24	
Surrogate: Toluene-d8		98.3 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	) mg/kg	mg/kg	Ana	lyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		95.1 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: WF		Batch: 2430113
		• • • •	10	07/05/04	07/05/04	

Chloride 7730 200 10 07/25/24 07/25/24



Page 6 of 19

	5	ample D	ata				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	6 State Cor )3-0002 ley Gioveng				<b>Reported:</b> 7/31/2024 9:13:56AM
		FS50-0'					
		E407202-03					
Analyte	Result	Reporting Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2430107
Benzene	ND	0.0250		1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250		1	07/25/24	07/26/24	
Toluene	ND	0.0250		1	07/25/24	07/26/24	
p-Xylene	ND	0.0250		1	07/25/24	07/26/24	
o,m-Xylene	ND	0.0500		1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250		1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130		07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		07/25/24	07/26/24	
Surrogate: Toluene-d8		99.6 %	70-130		07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		103 %	70-130		07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		07/25/24	07/26/24	
Surrogate: Toluene-d8		99.6 %	70-130		07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	ζM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	:	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	07/25/24	07/27/24	
Surrogate: n-Nonane		108 %	50-200		07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: V	WF		Batch: 2430113
Chloride	1870	20.0		1	07/25/24	07/25/24	



	S	Sample D	ata			
Matador Resources, LLC.	Project Nam	e: AO	6 State Com TB			
5400 LBJ Freeway, Suite 1500	Project Num	iber: 230	03-0002			Reported:
Dallas TX, 75240	Project Man	ager: Ash	ley Giovengo			7/31/2024 9:13:56AM
		FS51-0'				
		E407202-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Anal	yst: IY	Batch: 2430107	
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Foluene	ND	0.0250	1	07/25/24	07/26/24	
p-Xylene	ND	0.0250	1	07/25/24	07/26/24	
o,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Fotal Xylenes	ND	0.0250	1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/25/24	07/26/24	
Surrogate: Toluene-d8		98.1 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130	07/25/24	07/26/24	
Surrogate: Toluene-d8		98.1 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/OR	o mg/kg	mg/kg	Anal	yst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	30.1	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		103 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2430113
			10	07/05/04	07/06/01	

Chloride **8920** 200 10 07/25/24 07/26/24

Page 8 of 19



	5	ample D	ala				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Numb Project Mana	ber: 2300	6 State Con )3-0002 ley Gioven				<b>Reported:</b> 7/31/2024 9:13:56AM
		FS52-0'					
		E407202-05					
		Reporting					
Analyte	Result	Limit	Dilu	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2430107
Benzene	ND	0.0250		1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250		1	07/25/24	07/26/24	
°oluene	ND	0.0250		1	07/25/24	07/26/24	
-Xylene	ND	0.0250		1	07/25/24	07/26/24	
,m-Xylene	ND	0.0500		1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250		1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		100 %	70-130		07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		07/25/24	07/26/24	
urrogate: Toluene-d8		98.2 %	70-130		07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0		1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		100 %	70-130		07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	70-130		07/25/24	07/26/24	
Surrogate: Toluene-d8		98.2 %	70-130		07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	29.8	25.0		1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0		1	07/25/24	07/27/24	
urrogate: n-Nonane		84.8 %	50-200		07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	WF		Batch: 2430113
Chloride	10000	200	1	0	07/25/24	07/26/24	



	D D	ample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 2300	6 State Com )3-0002 ey Giovengo			<b>Reported:</b> 7/31/2024 9:13:56AM
		FS53-0'				
		E407202-06				
		Reporting				
Analyte	Result	Limit	Dilut	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	А	nalyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
oluene	ND	0.0250	1	07/25/24	07/26/24	
-Xylene	ND	0.0250	1	07/25/24	07/26/24	
,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
urrogate: Bromofluorobenzene		97.7 %	70-130	07/25/24	07/26/24	
urrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	07/25/24	07/26/24	
urrogate: Toluene-d8		98.7 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	А	nalyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		97.7 %	70-130	07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		94.3 %	70-130	07/25/24	07/26/24	
Surrogate: Toluene-d8		98.7 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	А	nalyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		96.4 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	А	nalyst: WF		Batch: 2430113
Chloride	10200	200	10	07/25/24	07/26/24	



	S	Sample D	ata			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Nam Project Num Project Man	ber: 2300	6 State Com 7 03-0002 ley Giovengo	ΓB		<b>Reported:</b> 7/31/2024 9:13:56AM
		FS54-0'				
		E407202-07				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	An	nalyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
Ethylbenzene	ND	0.0250	1	07/25/24	07/26/24	
Toluene	ND	0.0250	1	07/25/24	07/26/24	
o-Xylene	ND	0.0250	1	07/25/24	07/26/24	
p,m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	07/25/24	07/26/24	
Surrogate: Toluene-d8		98.1 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	alyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/25/24	07/26/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130	07/25/24	07/26/24	
Surrogate: Toluene-d8		98.1 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	alyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
Surrogate: n-Nonane		96.5 %	50-200	07/25/24	07/27/24	





	2	sample D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name Project Num Project Mana	ber: 2300	6 State Com 03-0002 ley Giovengo	ГВ		<b>Reported:</b> 7/31/2024 9:13:56AM
		FS55-0'				
		E407202-08				
		Reporting				
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2430107
Benzene	ND	0.0250	1	07/25/24	07/26/24	
thylbenzene	ND	0.0250	1	07/25/24	07/26/24	
oluene	ND	0.0250	1	07/25/24	07/26/24	
-Xylene	ND	0.0250	1	07/25/24	07/26/24	
m-Xylene	ND	0.0500	1	07/25/24	07/26/24	
Total Xylenes	ND	0.0250	1	07/25/24	07/26/24	
urrogate: Bromofluorobenzene		99.7 %	70-130	07/25/24	07/26/24	
urrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	07/25/24	07/26/24	
urrogate: Toluene-d8		96.5 %	70-130	07/25/24	07/26/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2430107
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/25/24	07/26/24	
urrogate: Bromofluorobenzene		99.7 %	70-130	07/25/24	07/26/24	
urrogate: 1,2-Dichloroethane-d4		98.0 %	70-130	07/25/24	07/26/24	
urrogate: Toluene-d8		96.5 %	70-130	07/25/24	07/26/24	
onhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2430097
Diesel Range Organics (C10-C28)	ND	25.0	1	07/25/24	07/27/24	
Dil Range Organics (C28-C36)	ND	50.0	1	07/25/24	07/27/24	
urrogate: n-Nonane		97.6 %	50-200	07/25/24	07/27/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: WF		Batch: 2430113
Chloride	8830	200	10	07/25/24	07/26/24	



# QC Summary Data

230 Asl	o 6 State Con 003-0002 hley Gioveng Inds by EI Source Result mg/kg	20 PA 8260E Rec % 103 96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	Rec         Limits           %         %           70-130         70-130           70-130         70-130           70-130         70-130           70-130         70-130           70-130         70-130           70-130         70-130           70-130         70-130           70-130         70-130           70-130         70-130		RPD Limit %	Reported:           31/2024         9:13:56AM           Analyst: IY         Notes           Ilyzed: 07/26/24         07/26/24
Compou Spike Level mg/kg 0.500 0.500 0.500 0.500 2.50 2.50 2.50	Source Result	PA 8260E Rec % % 96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	Rec Limits % 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130	% Prepared: 0	RPD Limit %	Analyst: IY Notes
2 Spike Level mg/kg 0.500 0.500 0.500 0.500 2.50 2.50 2.50	Source Result	Rec % ///////////////////////////////////	Rec Limits % 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130	% Prepared: 0	Limit % 7/25/24 Ana	Notes
Level mg/kg 0.500 0.500 0.500 2.50 2.50 2.50 2.50 2	Result	% 103 96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	Limits % 70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130	% Prepared: 0	Limit % 7/25/24 Ana	lyzed: 07/26/24
0.500 0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50	mg/kg	103 96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50		96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130			
0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50		96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50		96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50		96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50		96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50		96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50		96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	ılyzed: 07/26/24
0.500 0.500 2.50 2.50 2.50 2.50 5.00 7.50		96.8 98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	ılyzed: 07/26/24
0.500 2.50 2.50 2.50 2.50 5.00 7.50		98.3 94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	ılyzed: 07/26/24
2.50 2.50 2.50 2.50 5.00 7.50		94.1 99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
2.50 2.50 2.50 5.00 7.50		99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130	Prepared: 0	7/25/24 Ana	llyzed: 07/26/24
2.50 2.50 2.50 5.00 7.50		99.1 92.7 98.6 98.1 98.3	70-130 70-130 70-130 70-130			
2.50 2.50 5.00 7.50		92.7 98.6 98.1 98.3	70-130 70-130 70-130			
2.50 5.00 7.50		98.6 98.1 98.3	70-130 70-130			
5.00 7.50		98.1 98.3	70-130			
7.50		98.3				
			70-130			
0 500		101				
0.000		101	70-130			
0.500		98.5	70-130			
0.500		99.0	70-130			
	Source:	E407202-(	01	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
2.50	ND	95.0	48-131			
2.50	ND	98.9	45-135			
2.50	ND	92.2	48-130			
2.50	ND	98.8	43-135			
5.00	ND	98.1	43-135			
7.50	ND	98.3	43-135			
0.500		104	70-130			
0.500		98.5	70-130			
0.500		98.3	70-130			
	Source:	E407202-(	01	Prepared: 0	7/25/24 Ana	lyzed: 07/26/24
2.50	ND	96.9	48-131	2.02	23	
2.50	ND	102	45-135	3.01	27	
2.50	ND	94.5	48-130	2.42	24	
2.50	ND	103	43-135	4.26	27	
5 00	ND	102	43-135	3.59	27	
5.00	ND	102	43-135	3.82	27	
5.00 7.50		102	70-130			
		08.7	70-130			
7.50 0.500		20.7				
	2.50 2.50 2.50 2.50 5.00 7.50 0.500	Source:           2.50         ND           2.50         ND           2.50         ND           2.50         ND           5.00         ND           7.50         ND           0.500	Source: E407202-0           2.50         ND         96.9           2.50         ND         102           2.50         ND         94.5           2.50         ND         103           5.00         ND         102           7.50         ND         102           0.500         102         102	Source: E407202-01           2.50         ND         96.9         48-131           2.50         ND         102         45-135           2.50         ND         94.5         48-130           2.50         ND         103         43-135           5.00         ND         102         43-135           7.50         ND         102         43-135           0.500         102         43-135	Source: E407202-01         Prepared: 0           2.50         ND         96.9         48-131         2.02           2.50         ND         102         45-135         3.01           2.50         ND         94.5         48-130         2.42           2.50         ND         103         43-135         4.26           5.00         ND         102         43-135         3.59           7.50         ND         102         43-135         3.82	Source: E407202-01         Prepared: 07/25/24         Ana           2.50         ND         96.9         48-131         2.02         23           2.50         ND         102         45-135         3.01         27           2.50         ND         94.5         48-130         2.42         24           2.50         ND         103         43-135         4.26         27           5.00         ND         102         43-135         3.59         27           7.50         ND         102         43-135         3.82         27           0.500         102         70-130         43-135         3.82         27



# **QC Summary Data**

		QC DI	u111111	ary Data	1				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	2.	.O 6 State Com 3003-0002 .shley Gioveng					<b>Reported:</b> 7/31/2024 9:13:56AM
	No		Analyst: IY						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2430107-BLK1)							Prepared: 0	7/25/24	Analyzed: 07/26/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500		96.8	70-130			
Surrogate: Toluene-d8	0.492		0.500		98.3	70-130			
LCS (2430107-BS2)							Prepared: 0	7/25/24	Analyzed: 07/26/24
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0		91.4	70-130			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
Matrix Spike (2430107-MS2)				Source:	E407202-01	l	Prepared: 0	7/25/24	Analyzed: 07/26/24
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		0.500		97.4	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			
Matrix Spike Dup (2430107-MSD2)				Source:	E407202-01	l	Prepared: 0	7/25/24	Analyzed: 07/26/24
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130	3.26	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.7	70-130			



# **QC Summary Data**

		QU D	u111110	ii y Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	O 6 State Con 6003-0002 shley Gioveng					<b>Reported:</b> 7/31/2024 9:13:56AM
	Nonh		Analyst: NV						
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2430097-BLK1)							Prepared: 0	7/25/24 A	nalyzed: 07/27/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	55.2		50.0		110	50-200			
LCS (2430097-BS1)							Prepared: 0	7/25/24 A	nalyzed: 07/27/24
Diesel Range Organics (C10-C28)	241	25.0	250		96.4	38-132			
Surrogate: n-Nonane	56.6		50.0		113	50-200			
Matrix Spike (2430097-MS1)				Source:	E407188-	04	Prepared: 0	7/25/24 A	nalyzed: 07/27/24
Diesel Range Organics (C10-C28)	6180	125	250	5870	123	38-132			
Surrogate: n-Nonane	54.5		50.0		109	50-200			
Matrix Spike Dup (2430097-MSD1)				Source:	E407188-	04	Prepared: 0	7/25/24 A	nalyzed: 07/27/24
Diesel Range Organics (C10-C28)	6430	125	250	5870	223	38-132	3.97	20	M4
Surrogate: n-Nonane	54.6		50.0		109	50-200			



# **QC Summary Data**

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:		O 6 State Con 3003-0002	n TB				Reporte	ed:
Dallas TX, 75240		Project Manager:	A	shley Gioveng	go				7/31/2024 9:1	3:56AM
		Anions	by EPA 3	<b>300.0/9056</b> A	A				Analyst: W	F
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit		
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Not	es
Blank (2430113-BLK1)							Prepared: 0	7/25/24	Analyzed: 07/2	5/24
Chloride	ND	20.0								
LCS (2430113-BS1)							Prepared: 0	7/25/24	Analyzed: 07/2	5/24
Chloride	249	20.0	250		99.8	90-110				
Matrix Spike (2430113-MS1)				Source:	E407196-0	3	Prepared: 0	7/25/24	Analyzed: 07/2	5/24
Chloride	490	20.0	250	268	88.6	80-120				
Matrix Spike Dup (2430113-MSD1)				Source:	E407196-0	13	Prepared: 0	7/25/24	Analyzed: 07/2	5/24
Chloride	520	20.0	250	268	101	80-120	5.90	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.



Matador Resources, LLC.	Project Name:	AO 6 State Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/31/24 09:13

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

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

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

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





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roject: /	4063	tate	Com 1	<u>-B</u>		ddress: 3122 National Parks Hwy			40	71	<u>57</u>	23	<del>87</del>	7-00	eH	•			×	x			
<u>roject N</u>	lanager: Asl	nley Giov	engo			ty, State, Zip: Carlsbad NM, 88220			<u></u>				N	• <b>S</b>	<u>7-</u>	25	- 2.	1					
	3122 Natio				Phone: 575-988-0055	hone: 575-988-0055						Ana	lysis	and I	Viet	hod				EPA	Program		
<u>ity, Stat</u>	e, Zip: Carls	oad NM,	88220		Email: agiovengo@er	Email: agiovengo@ensolum.com					1									SDWA	CWA	RCRA	
	ne: 575-988-0055 Miscellaneous:																	L					
<u>nail: a</u>	<u>giovengo@e</u> l	n <u>solum.c</u>	om						្រឡ	5					1					Compliance	YC	<u>)r   1</u>	
									×	8	1	9	0.0	Σ	۲	tals			Ļ	PWSID #			
				Sample Info	ormation				<sup>2</sup>	1 de	8	, 826	le 30	N I	5	Ř				_			
Time ampled	Date Sampled	Matrix	No. of Containers		Sample ID		Field	Lab Numb	편     DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				R	emarks		
10:46	7/23/2024	S	1		FS48 - 0'			1						x									
10:47	7/23/2024				FS49 - 0'			~		+					_				-				
		S	1					2						X									
10:50	7/23/2024	S	1		FS50 - 0'			3						x									
10:50	7/23/2024				FS51 - 0'					1-		-							$\neg$				
	1	S	1					Ч						X									
10:51	7/23/2024	S	1		FS52 - 0'			5						x									
10:54	7/23/2024	s	1		FS53 - 0'			6			T			x									
10:54	7/23/2024	S	1		FS54 - 0'			7						x					-+				
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ddition	al Instructio	ns: Plea	ase CC: cl	l burton@ensolun	n.com, agiovengo@ensolu	n.com, iestr	ella@	enso	lum.c	om, b	dea!(	ens@ens	l iolun	n.com	, ch	amilt	:on@	)ensc	Jum.	.com,			
	ns@ensolum			_		_								_	-		-						
field sam	oler), attest to the	e validity and	authenticity	y of this sample. I am a	ware that tampering with or intention	ally mislabeling t	he sam	ple loca	tion, da	te or tin	ne of co	ollection	n is cor	nsidered	d frau	d and r	nay be	groun	ds for l	egal action.			
	Cole Burton											_											
elinguish	ed by: (Signatu	re)	Date	24/24 Time	30 Mighelle G	lec	Date	Nel M		1e い <b>つ</b> r										t be received or temp above 0 b			
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Mix	relle G	onzale	10010		35 J.H.	<b>)</b>	Date 7.7	4.0	<b>y</b>	170	$\mathfrak{D}$			Rece	ived	l on i	ce:	~~	D USE	e Only			
elinguish	ed by: (Signatu	re)	Date		Received by: (Signature		Date		Tin	ne <b>*</b>	~									_	_		
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	rix: S - Soil, Sd - S							ainer T															
					ss other arrangements are made										clien	at expe	ense.	The re	port fe	or the analys	is of the ab	ove	
	applicable only	to those s	amples rec	eived by the laborate	ory with this COC. The liability of	the laboratory i	s limit	ed to th	he amo	unt pai	id for (	on the	repor	rt.									



#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

lient:	Matador Resources, LLC.	ate Received:	07/25/24 08	3:30	Work Order ID:	E407202
Phone:	(972) 371-5200 D	ate Logged In:	07/24/24 15	5:57	Logged In By:	Alexa Michaels
Email:		ue Date:	07/31/24 17	7:00 (4 day TAT)		
Chain o	f 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: C	Couier	
4. Was tl	he COC complete, i.e., signatures, dates/times, requester	d analyses?	Yes			
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
<u>Sample</u>	<u>Turn Around Time (TAT)</u>					
6. Did th	ne COC indicate standard TAT, or Expedited TAT?		Yes		AO 6 State Com TB ha	is been separated
Sample	Cooler				into multiple WO due t	o high sample
7. Was a	sample cooler received?		Yes		volume. WO are E4072	200, E407201 and
8. If yes,	, was cooler received in good condition?		Yes		E407202.	
9. Was tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
11. If ye	s, were custody/security seals intact?		NA			
12. Was t	the sample received on ice? If yes, the recorded temp is 4°C, i.e Note: Thermal preservation is not required, if samples are re-		Yes			
13 If no	minutes of sampling visible ice, record the temperature. Actual sample te	mnerature: 4º	C			
		inperature: <u>1</u>	<u>c</u>			
	Container_ aqueous VOC samples present?		No			
	VOC samples collected in VOA Vials?		NA			
	e head space less than 6-8 mm (pea sized or less)?		NA			
	a trip blank (TB) included for VOC analyses?		NA			
	non-VOC samples collected in the correct containers?		Yes			
	appropriate volume/weight or number of sample container	s collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	nation:				
	Sample ID?		Yes			
	Date/Time Collected?		Yes	l		
	Collectors name?		Yes			
	<u>Preservation</u>	amuad?	N-			
	s the COC or field labels indicate the samples were pres sample(s) correctly preserved?	erveu?	No NA			
	sample(s) correctly preserved? b filteration required and/or requested for dissolved met	als?	NA No			
	• •	41J i	INU			
	nase Sample Matrix	)	N			
	s the sample have more than one phase, i.e., multiphase		No			
	s, does the COC specify which phase(s) is to be analyze	iur.	NA			
Subconf	tract Laboratory					
-						
28. Are s	samples required to get sent to a subcontract laboratory? a subcontract laboratory specified by the client and if so		No NA S	Subcontract Lab		

e

Date

envirotech Inc.

Released to Imaging: 8/28/2024 3:59:54 PM





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

**Practical Solutions for a Better Tomorrow** 

# **Analytical Report**

Matador Resources, LLC.

Project Name: AO 6 St

AO 6 State Com TB

Work Order: E408117

Job Number: 23003-0002

Received: 8/13/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/16/24

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: 8/16/24

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

Project Name: AO 6 State Com TB Workorder: E408117 Date Received: 8/13/2024 9:45:00AM

Ashley Giovengo,



Page 174 of 211

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/13/2024 9:45:00AM, under the Project Name: AO 6 State Com TB.

The analytical test results summarized in this report with the Project Name: AO 6 State Com TB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

Field Offices: Southern New Mexico Area Lynn Jarboe Laboratory Technical Representative Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com

Michelle Gonzales Client Representative Office: 505-421-LABS(5227) Cell: 505-947-8222 mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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# Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
FS14-0.5'	5
FS15-0.5'	6
FS16-0'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

	Sample Sum	mary	
Matador Resources, LLC.	Project Name:	AO 6 State Com TB	Depented
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/16/24 14:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS14-0.5'	E408117-01A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS15-0.5'	E408117-02A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.
FS16-0'	E408117-03A	Soil	08/09/24	08/13/24	Glass Jar, 2 oz.



	~.	imple D				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500	Project Name: Project Numbe		6 State Com TE 03-0002	3		Reported:
Dallas TX, 75240	Project Manag		ley Giovengo			8/16/2024 2:22:07PM
		FS14-0.5'				
		E408117-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: BA		Batch: 2433037
Benzene	ND	0.0250	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	08/13/24	08/13/24	
p-Xylene	ND	0.0250	1	08/13/24	08/13/24	
o,m-Xylene	ND	0.0500	1	08/13/24	08/13/24	
Total Xylenes	ND	0.0250	1	08/13/24	08/13/24	
Surrogate: 4-Bromochlorobenzene-PID		92.1 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: BA		Batch: 2433037
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/24	08/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: NV		Batch: 2433043
Diesel Range Organics (C10-C28)	33.0	25.0	1	08/13/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane		105 %	50-200	08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: WF		Batch: 2433048
Chloride	941	20.0	1	08/13/24	08/13/24	

	5	ampie D	ala			
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Project Numb Project Manag	er: 230	6 State Com TB 03-0002 ley Giovengo			<b>Reported:</b> 8/16/2024 2:22:07PM
		FS15-0.5'				
		E408117-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: BA		Batch: 2433037
Benzene	ND	0.0250	1	08/13/24	08/13/24	
Ethylbenzene	ND	0.0250	1	08/13/24	08/13/24	
Toluene	ND	0.0250	1	08/13/24	08/13/24	
p-Xylene	0.0316	0.0250	1	08/13/24	08/13/24	
o,m-Xylene	0.0747	0.0500	1	08/13/24	08/13/24	
Fotal Xylenes	0.106	0.0250	1	08/13/24	08/13/24	
Surrogate: 4-Bromochlorobenzene-PID		96.5 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	st: BA		Batch: 2433037
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/13/24	08/13/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	08/13/24	08/13/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: NV		Batch: 2433043
Diesel Range Organics (C10-C28)	92.9	25.0	1	08/13/24	08/13/24	
Dil Range Organics (C28-C36)	ND	50.0	1	08/13/24	08/13/24	
Surrogate: n-Nonane		110 %	50-200	08/13/24	08/13/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: WF		Batch: 2433048
Chloride	2610	40.0	2	08/13/24	08/13/24	



Project Name		/ a a			
Project Numb	ber: 230				<b>Reported:</b> 8/16/2024 2:22:07PM
	FS16-0'				
	E408117-03				
	Reporting				
Result	Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	Analyst: BA		Batch: 2433037
ND	0.0250	1	08/13/24	08/13/24	
ND	0.0250	1	08/13/24	08/13/24	
ND	0.0250	1	08/13/24	08/13/24	
ND	0.0250	1	08/13/24	08/13/24	
ND	0.0500	1	08/13/24	08/13/24	
ND	0.0250	1	08/13/24	08/13/24	
	89.3 %	70-130	08/13/24	08/13/24	
mg/kg	mg/kg	Analy	st: BA		Batch: 2433037
ND	20.0	1	08/13/24	08/13/24	
	103 %	70-130	08/13/24	08/13/24	
mg/kg	mg/kg	Analy	st: NV		Batch: 2433043
ND	25.0	1	08/13/24	08/13/24	
ND	50.0	1	08/13/24	08/13/24	
	107 %	50-200	08/13/24	08/13/24	
mg/kg	mg/kg	Analy	st: WF		Batch: 2433048
4100	40.0	2	08/13/24	08/13/24	
	Project Mana Result mg/kg ND ND ND ND ND ND MD MD MD MD MD MD MD MD MD MD MD MD MD	Project Manager:         Ashi           FS16-0'         E408117-03           Reporting         Reporting           Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         20.0           103 %         mg/kg           MD         25.0           ND         50.0           ND         50.0           107 %         mg/kg           mg/kg         mg/kg	Ashley Giovengo         FS16-0'         FS16-0'         E408117-03         Reporting         Reporting       Molection         Result       Limit       Dilution         mg/kg       mg/kg       Analys         ND       0.0250       1         MD       0.0250       1         MD       20.0       1         MD       20.0       1         MD       25.0       1         ND       50.200       1         ID7 %       50-200       1	Ashley Giovengo         FS16-0'         FS16-0'         E408117-03         Result       Dilution       Prepared         Result       Limit       Dilution       Prepared         mg/kg       mg/kg       Analyst: BA         ND       0.0250       1       08/13/24         ND       20.0       1       08/13/24         MD       20.0       1       08/13/24         MD       25.0       1       08/13/24         ND       25.0       1       08/13/24         ND       25.0       1       08/13/24         ND       50.0       1       08/13/24         ND       50.0       1       08/13/24 <td>Project Manager: Ashley Giovengo         FS16-0'         E408117-03         Reporting         Result       Limit       Dilution       Prepared       Analyzed         mg/kg       mg/kg       Analyst: BA       V         ND       0.0250       1       08/13/24       08/13/24         MD       0.0250       1       08/13/24       08/13/24         MD       20.0       1       08/13/24       08/13/24         MD       20.0       1       08/13/24       08/13/24         MD       20.0       1       08/13/24       08/13/24         MD       25.0       1</td>	Project Manager: Ashley Giovengo         FS16-0'         E408117-03         Reporting         Result       Limit       Dilution       Prepared       Analyzed         mg/kg       mg/kg       Analyst: BA       V         ND       0.0250       1       08/13/24       08/13/24         MD       0.0250       1       08/13/24       08/13/24         MD       20.0       1       08/13/24       08/13/24         MD       20.0       1       08/13/24       08/13/24         MD       20.0       1       08/13/24       08/13/24         MD       25.0       1



# **QC Summary Data**

		QC D	umma	ing Duc	u				
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500		Project Name: Project Number:	23	O 6 State Con 3003-0002					Reported:
Dallas TX, 75240		Project Manager:	As	shley Gioveng	go				8/16/2024 2:22:07PM
		Volatile O	rganics <b>b</b>	oy EPA 802	21B				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433037-BLK1)							Prepared: 0	8/13/24 A	nalyzed: 08/13/24
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	7.11	0.0250	8.00		88.8	70-130			
LCS (2433037-BS1)							Prepared: 0	8/13/24 A	nalyzed: 08/13/24
Benzene	5.20	0.0250	5.00		104	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.4	70-130			
Toluene	5.11	0.0250	5.00		102	70-130			
o-Xylene	4.94	0.0250	5.00		98.9	70-130			
p,m-Xylene	10.0	0.0500	10.0		100	70-130			
Total Xylenes	15.0	0.0250	15.0		99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.13		8.00		89.2	70-130			
Matrix Spike (2433037-MS1)				Source:	E408115-1	12	Prepared: 0	8/13/24 A	nalyzed: 08/13/24
Benzene	5.40	0.0250	5.00	ND	108	54-133			
Ethylbenzene	5.06	0.0250	5.00	ND	101	61-133			
Toluene	5.31	0.0250	5.00	ND	106	61-130			
p-Xylene	5.14	0.0250	5.00	ND	103	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.6	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.16		8.00		89.6	70-130			
Matrix Spike Dup (2433037-MSD1)				Source:	E408115-1	12	Prepared: 0	8/13/24 A	nalyzed: 08/13/24
Benzene	5.23	0.0250	5.00	ND	105	54-133	3.05	20	
Ethylbenzene	4.90	0.0250	5.00	ND	98.1	61-133	3.08	20	
Toluene	5.15	0.0250	5.00	ND	103	61-130	3.16	20	
p-Xylene	4.98	0.0250	5.00	ND	99.7	63-131	3.14	20	
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131	3.12	20	
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131	3.13	20	
Surrogate: 4-Bromochlorobenzene-PID	7.15		8.00		89.4	70-130			
0									


# **QC Summary Data**

		QU D	u 111111	ing Date					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	O 6 State Com 003-0002 shley Gioveng					<b>Reported:</b> 8/16/2024 2:22:07PM
Danas 17, 75240	No	nhalogenated C		, .		RO			Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
	шукд	Шу́ку	ing kg	iiig/kg	70	70	70	70	Notes
Blank (2433037-BLK1)							Prepared: 0	8/13/24 A	analyzed: 08/13/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.32		8.00		104	70-130			
LCS (2433037-BS2)							Prepared: 0	8/13/24 A	nalyzed: 08/13/24
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0		95.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		106	70-130			
Matrix Spike (2433037-MS2)				Source:	E408115-	12	Prepared: 0	8/13/24 A	analyzed: 08/13/24
Gasoline Range Organics (C6-C10)	47.5	20.0	50.0	ND	95.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			
Matrix Spike Dup (2433037-MSD2)				Source:	E408115-	12	Prepared: 0	8/13/24 A	analyzed: 08/13/24
Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130	2.96	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.49		8.00		106	70-130			



.

# **QC Summary Data**

		QU D	u	in y Data					
Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240		Project Name: Project Number: Project Manager:	23	O 6 State Con 3003-0002 shley Gioveng					<b>Reported:</b> 8/16/2024 2:22:07PM
Dallas 111, 72210	Nonh	alogenated Org			·	/ORO			Analyst: NV
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2433043-BLK1)							Prepared: 0	8/13/24 A	analyzed: 08/13/24
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	50.5		50.0		101	50-200			
LCS (2433043-BS1)							Prepared: 0	8/13/24 A	analyzed: 08/13/24
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			
Matrix Spike (2433043-MS1)				Source:	E408116-0	07	Prepared: 0	8/13/24 A	analyzed: 08/13/24
Diesel Range Organics (C10-C28)	284	25.0	250	ND	114	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			
Matrix Spike Dup (2433043-MSD1)				Source:	E408116-0	07	Prepared: 0	8/13/24 A	analyzed: 08/13/24
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132	0.128	20	
Surrogate: n-Nonane	52.2		50.0		104	50-200			



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# **QC Summary Data**

Matador Resources, LLC.		Project Name:	AO 6 State Com TB						Reported:
5400 LBJ Freeway, Suite 1500		Project Number:	23	3003-0002					
Dallas TX, 75240		Project Manager	: A	shley Gioveng	go				8/16/2024 2:22:07PM
		Anions	by EPA 3	300.0/9056 <i>A</i>	4				Analyst: WF
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2433048-BLK1)							Prepared: 0	8/13/24 <i>A</i>	Analyzed: 08/13/24
Chloride	ND	20.0							
LCS (2433048-BS1)							Prepared: 0	8/13/24 <i>A</i>	Analyzed: 08/13/24
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2433048-MS1)				Source:	E408111-0	)1	Prepared: 0	8/13/24 <i>A</i>	Analyzed: 08/13/24
Chloride	340	20.0	250	67.5	109	80-120			
Matrix Spike Dup (2433048-MSD1)				Source:	E408111-0	)1	Prepared: 0	8/13/24 <i>A</i>	Analyzed: 08/13/24
Chloride	322	20.0	250	67.5	102	80-120	5.38	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.



Matador Resources, LLC.	Project Name:	AO 6 State Com TB	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/16/24 14:22

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



#### **Chain of Custody**

Client Information			Invoice Informat	ion			Lab Use Only								TAT State				
nt: N	latador Prod	uction Co	ompany		Company: Ensolum LLC		1	ab W	VO#			Job	Numb	ber		1D 2	D 3D Sto	MM CO UT TX	
	AO 6 State				Address: 3122 National Parl	s Hwy		E4(	081	17		230	003	-00	2		X	X	
ect N	lanager: Ash	ley Giov	engo	-	City, State, Zip: Carlsbad NM	, 88220	1							187					
ess:	3122 Nation	al Parks	Hwy		Phone: 575-988-0055			Γ				Ana	lysis	and I	Meth	nod		EPA Program	
	e, Zip: Carls				Email: agiovengo@ensolu	n.com		F					· Τ	T				SDWA CWA RC	
	75-988-005			1- 3	Miscellaneous:		_												
_	iovengo@er		om						S	S								Compliance Y or	
-									8015	8015	-		0		~	s		PWSID #	
				Sample Infor	mation				O by	0 by	802	8260	300	NN	5-T	Meta			
e led	Date Sampled	Matrix	No. of Containers		Sample ID	Field	Lak Numl	o ber	DRO/ORO by	GRO/DRO by	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals		Remarks	
40	8/9/2024	S	1		FS14 - 0.5'		1							x					
:58	8/9/2024	S	1		FS15 - 0.5'		2							x					
1	8/9/2024				FS16 - 0'			-	-	-				-	-	-			
24	0/5/2024	S	1		F310 - 0		3							X					
-																			
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		-					_												
			ase CC: cb	ourton@ensolum.	com, agiovengo@ensolum.co	n, chamilt	on@en	isolu	m.co	om, i	estre	ella@	Penso	olum	.com	n, bdea	l@ensolu	m.com,	
	s@ensolum			(A)	al a second s	-1 - 1 - P 41									16	d a se d sei a		las la sel a sel as	
	Chad Ham		authenticity	of this sample. Tam awa	re that tampering with or intentionally m	slabeling the s	ample loc	ation,	date o	or time	01 001	lection	n is con	sidered	dirauc	a and ma	y be grounds i	or legal action.	
	ed by: (Signatur		Date	9/12 / 7 1 Time	Beceived by: (Signature)	Dat	e	1	Time					Sample	s requir	ring therm	al preservation	must be received on ice the day they a	
2	0011018110101	-1	-	8/12/24 Time 1045	Received by: (Signature)	0 5	3.122		10	545	5						ked in ice at an a	avg temp above 0 but less than 6 °C or	
auish	d by (Signatur	e) A	Date	Time	Received by: (Signature)	Dat	e	1	Time /	-1	-		-	suhseau	uent da	IVS.	Labl	Jse Only	
lije	helle G	ongal	eg 8.	12:24 154			3.12.7	14	11	15	D		- 1	Rece	ived	on ice	-		
Kist	ed by: (Signatur	e)	Date	Time	Received by: (Signature)	Dat	_	- 61	Time	12	~		Received on ice: (Y)/ N						
de		80	Q.	12.24 250	x Cot	- 8	-13-2.	4	090	45				T1			Т2	T3	
uish	ed by: (Signatur		Date	Time	Received by: (Signature)	Dat			Time										
													-	AVG	Tem	p°C_	4		
Mat	ix: S - Soil, Sd - So	olid, Sg - Slu	dge, A - Aque	ous, O - Other	_	Co	ntainer	Type	: g - g	glass,	<b>p</b> - p	oly/p	plastic	, ag -	amb	er glas	s, v - VOA		
					other arrangements are made. Hazar										clien	t expens	e. The repo	rt for the analysis of the above	
oc ic	applicable only	to those s	amples rece	eived by the laborator	with this COC. The liability of the la	poratory is lin	nited to t	the an	nount	t paid	for o	n the	report	t.				virot	

### **Envirotech Analytical Laboratory**

#### Sample Receipt Checklist (SRC)

Client:	Matador Resources, LLC. Da	te Received:	08/13/24	00:00	Work Order ID:	E408117
Phone:	(972) 371-5200 Da	te Logged In:	08/12/24	15:33	Logged In By:	Alexa Michaels
Email:		ie Date:	08/19/24	17:00 (4 day TAT)		
Chain o	f Custody (COC)					
. Does 1	the sample ID match the COC?		Yes			
2. Does t	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 th	he 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 i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		Commen	ts/Resolution
Sample '	<u>Turn Around Time (TAT)</u>					
5. Did th	e 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 tl	he sample(s) received intact, i.e., not broken?		Yes			
10. Were	e custody/security seals present?		No			
	s, were custody/security seals intact?		NA			
-	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are real		Yes			
13. If no	minutes of sampling visible ice, record the temperature. Actual sample tem	nperature: <u>4°</u>	<u>C</u>			
Sample	<u>Container</u>					
14. Are a	aqueous VOC samples present?		No			
15. Are '	VOC samples collected in VOA Vials?		NA			
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA			
17. Was	a trip blank (TB) included for VOC analyses?		NA			
18. Are 1	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample containers	collected?	Yes			
Field La						
	e field sample labels filled out with the minimum inform	ation:	v			
	Sample ID? Date/Time Collected?		Yes			
	Collectors name?		Yes Yes			
	Preservation_		105			
	s the COC or field labels indicate the samples were prese	rved?	No			
	sample(s) correctly preserved?		NA			
	b filteration required and/or requested for dissolved meta	ls?	No			
	ase Sample Matrix					
	s the sample have more than one phase, i.e., multiphase?		No			
	s, does the COC specify which phase(s) is to be analyzed		NA			
	tract Laboratory		- •• •			
	samples required to get sent to a subcontract laboratory?		No			
	a subcontract laboratory specified by the client and if so		NA	Subcontract Lab: NA		
	Instruction			2		

Date



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



# APPENDIX E

**NMOCD** Notifications

Released to Imaging: 8/28/2024 3:59:54 PM

From:	Wells, Shelly, EMNRD
То:	Ashley Giovengo; Jason Touchet
Cc:	Cole Burton; Chad Hamilton; Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD
Subject:	RE: [EXTERNAL] Extension Request - AO 6 State Com TB - Incident Number nAPP2413542400
Date:	Tuesday, August 13, 2024 2:42:38 PM
Attachments:	image001.png
	image002.png
	image003.png

#### [ \*\*EXTERNAL EMAIL\*\*]

#### Hi Ashley,

The extension request for NAPP2413542400 AO 6 STATE COM TB is approved. The new due date to submit your remediation closure report to the OCD is November 11, 2024. 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.

Kind regards,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520<u>|Shelly.Wells@emnrd.nm.gov</u> http://www.emnrd.state.nm.us/OCD/

From: Ashley Giovengo <agiovengo@ensolum.com>

**Sent:** Tuesday, August 13, 2024 1:43 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Jason Touchet

<jason.touchet@matadorresources.com>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>
Subject: [EXTERNAL] Extension Request - AO 6 State Com TB - Incident Number nAPP2413542400

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

All,

Matador Production Company (Matador) is requesting an extension of the current deadline of August 12, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the AO 6 State Com TB (Site) (Incident Number nAPP2413542400). The release occurred on May 13, 2024, and lateral and vertical delineation sampling to the strictest Closure Criteria per NMOCD Table I has been completed. Ensolum personnel oversaw the excavation of the on-pad release area beginning on July 22, 2024, through July 23, 2024. Following excavation activities, Ensolum personnel collected confirmation samples every 200 square feet from the floor and sidewalls of the excavation. Based on laboratory analytical results, 3 confirmation floor samples exceeded the Site Closure Criteria. Ensolum will return to the Site on August 09, 2024, to complete additional excavation activities and to recollect the 3 failing confirmation samples. Matador intends to submit a remediation work plan or closure report, upon receiving final laboratory analytical results from confirmation sampling activities. Matador respectfully requests an extension until November 10, 2024.

Thanks,



Ashley Giovengo Senior Scientist 575-988-0055 Ensolum, LLC in f X

"Your authenticity is your superpower." – Unknown

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

QUESTIONS

Action 347294

QUESTIONS						
Operator:	OGRID:					
MATADOR PRODUCTION COMPANY	228937					
One Lincoln Centre	Action Number:					
Dallas, TX 75240	347294					
	Action Type:					
	[NOTIFY] Notification Of Liner Inspection (C-141L)					

#### QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2413542400				
Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0				
Incident Type	Produced Water Release				
Incident Status	Initial C-141 Approved				

#### Location of Release Source

Site Name	AO 6 State Com TB
Date Release Discovered	05/13/2024
Surface Owner	State

#### Liner Inspection Event Information

Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	5,652
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	05/30/2024
Time liner inspection will commence	09:00 AM
Please provide any information necessary for observers to liner inspection	N/A
Please provide any information necessary for navigation to liner inspection site	32.4164063,-103.6039982

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

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	347294
	Action Type:
	[NOTIFY] Notification Of Liner Inspection (C-141L)

C	CONDITIONS	3	
	Created By		Condition Date
	j_touchet	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	5/23/2024

PageH9Jeof 211

Action 347294

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District III

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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

Page1192eof 211 QUESTIONS

Action 364958

QUESTIONS

Operator:		OGRID:
	MATADOR PRODUCTION COMPANY	228937
	One Lincoln Centre	Action Number:
	Dallas, TX 75240	364958
		Action Type:
		[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites		
Incident ID (n#)	nAPP2413542400	
Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0	
Incident Type	Produced Water Release	
Incident Status	Initial C-141 Approved	

Location of Release Source	
Site Name	AO 6 State Com TB
Date Release Discovered	05/13/2024
Surface Owner	State

Sampling Event General Information
Please answer all the questions in this group

Please answer all the questions in this group.		
What is the sampling surface area in square feet	10,865	
What is the estimated number of samples that will be gathered	55	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/22/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	N/A	
Please provide any information necessary for navigation to sampling site	32.4164063,-103.6039982	

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	364958
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS			
Cre	eated By	Condition	Condition Date
j_	touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/17/2024

CONDITIONS

Page1193eof 211

Action 364958

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

Page1194eof 211 QUESTIONS

Action 364960

QUESTIONS Operator: OGRID: MATADOR PRODUCTION COMPANY 228937 One Lincoln Centre Action Number Dallas, TX 75240 364960 Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413542400
Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source	
Site Name	AO 6 State Com TB
Date Release Discovered	05/13/2024
Surface Owner	State

Sampling Event General Information			
Please answer all the questions in this group.			
What is the sampling surface area in square feet	10,865		
What is the estimated number of samples that will be gathered	55		
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/23/2024		
Time sampling will commence	09:00 AM		
Please provide any information necessary for observers to contact samplers	N/A		
Please provide any information necessary for navigation to sampling site	32.4164063,-103.6039982		

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CONDITIONS

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	364960
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

Created By		Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/17/2024

PageH95eof 211

Action 364960

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

Page1196eof 211

QUESTIONS

Action 370783

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370783
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2413542400
Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved

Location of Release Source		
Site Name	AO 6 State Com TB	
Date Release Discovered	05/13/2024	
Surface Owner	State	

Sampling Event General Information		
Please answer all the questions in this group.		
What is the sampling surface area in square feet	600	
What is the estimated number of samples that will be gathered	3	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024	
Time sampling will commence	09:00 AM	
Please provide any information necessary for observers to contact samplers	N/A	
Please provide any information necessary for navigation to sampling site	32.4164063,-103.6039982	

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

CONDITIONS

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	370783
Γ	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS		
Created By	Condition	Condition Date
j_touchet	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	8/6/2024

CONDITIONS

Action 370783

From:	Ashley Giovengo
То:	Wells, Shelly, EMNRD
Cc:	Jason Touchet; Cole Burton; Chad Hamilton
Subject:	[EXTERNAL] RE: NAPP2413542400 AO 6 STATE COM TB
Date:	Wednesday, August 28, 2024 11:57:33 AM
Attachments:	image001.png
	image002.png
	image003.png
	image005.png
	image006.png
	image007.png
	20240530 liner inspection.pdf

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

Shelly,

The release was the result of the SWD line that runs from inside the tank battery containment to the main SWD pipeline. The leaking pipe sprayed produced water into the secondary tank containment. The containment was pressured washed prior to completing the liner integrity inspection on May 30, 2024. I have attached the signed liner integrity inspection sheet for your reference.

Two holes were identified in the containment liner, 1 on the southeast corner of the containment and the 2<sup>nd</sup> hole was found on the southwest corner of the containment. Ensolum personnel advanced boreholes directly beneath the holes in the containment liner via hand auger. I have included photos of the holes from the liner inspection and photos of where my team patched the liner when the delineation sampling was completed. Please let me know if you need any additional information.





Thanks,

Ashley Giovengo Senior Scientist 575-988-0055



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, August 28, 2024 10:51 AM
To: Ashley Giovengo <agiovengo@ensolum.com>
Subject: NAPP2413542400 AO 6 STATE COM TB

# [ \*\*EXTERNAL EMAIL\*\*]

Good morning Ashley,

I am reviewing the report submitted for NAPP2413542400 AO 6 STATE COM TB and have some questions for you. How did the portion of the release that ended up outside containment get there? Did the containment overflow?

In the report it states that BH05 and BH06 "were advanced in the general vicinity of the damaged liner via hand auger." The words "general vicinity" leave more questions than answers for me. Were there two tears/holes? Was each borehole advanced immediately beneath the tear?

Finally, whenever a liner is torn the OCD needs to know it was repaired. Was it repaired? If so, can you provide photos?

These are all the questions I have. I look forward to hearing what you have to say.

Kind regards,

Shelly

Shelly Wells \* Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520<u>|Shelly.Wells@emnrd.nm.gov</u> http://www.emnrd.state.nm.us/OCD/

# **Liner Integrity Inspection Form**

Site Name: AD 10 state Com TB	
Site Name: AD le state Com TB. Company: Matada Production Canoany	
Date: 5/30/24.	
48-Hour Notification Given On:	3-1-1-1-
Responsible party has Visually inspected the liner	ÝN
Liner Remains Intact	YN
Liner had the ability to contain the leak in question	Y /

Notes:

2 Perforations found on liner.

1- 5E	Corner	of	Contemporent
2-500	Corner	of	Carterment.

Company Representative (s)

Israel Estrella



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

QUESTIONS

Action 377703

QUESTIONS	
Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	377703
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Incident ID (n#)     nAPP2413542400       Incident Name     NAPP2413542400 AO 6 STATE COM TB @ 0	Prerequisites		
	Incident ID (n#)	nAPP2413542400	
Incident Type Produced Water Polosso	Incident Name	NAPP2413542400 AO 6 STATE COM TB @ 0	
Flouled Water Release	Incident Type	Produced Water Release	
Incident Status Remediation Closure Report Received	Incident Status	Remediation Closure Report Received	

#### Location of Release Source

Please answer all the questions in this group.	
Site Name	AO 6 STATE COM TB
Date Release Discovered	05/13/2024
Surface Owner	State

#### Incident Details

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

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure   Pipeline (Any)   Produced Water   Released: 165 BBL   Recovered: 100 BBL   Lost: 65 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Not answered.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.	

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

QUESTIONS, Page 2

Action 377703

QUESTIONS	(continued)	)

Operator:	OGRID:
MATADOR PRODUCTION COMPANY	228937
One Lincoln Centre	Action Number:
Dallas, TX 75240	377703
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com

Date: 08/26/2024

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

Page 206 of 211

QUESTIONS, Page 3

Action 377703

 QUESTIONS (continued)

 Operator:
 OGRID:

 MATADOR PRODUCTION COMPANY
 00

 One Lincoln Centre
 Action Number:

 Dallas, TX 75240
 377703

 Action Type:
 [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

#### Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 27600 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 5490 GRO+DRO (EPA SW-846 Method 8015M) 4010 BTEX (EPA SW-846 Method 8021B or 8260B) 0 (EPA SW-846 Method 8021B or 8260B) Benzene 0 Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 07/22/2024 On what date will (or did) the final sampling or liner inspection occur 08/09/2024 On what date will (or was) the remediation complete(d) 08/09/2024 What is the estimated surface area (in square feet) that will be reclaimed 0 What is the estimated volume (in cubic yards) that will be reclaimed 0 What is the estimated surface area (in square feet) that will be remediated 10865 What is the estimated volume (in cubic yards) that will be remediated 182 These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsion significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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District III

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

QUESTIONS, Page 4

Action 377703

**QUESTIONS** (continued) Operator OGRID: MATADOR PRODUCTION COMPANY 228937 One Lincoln Centre Action Number: Dallas, TX 75240 377703 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply. (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal Not answered OR which OCD approved well (API) will be used for off-site disposal Not answered OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Yes What is the name of the NMED facility R360 Hobbs (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered. (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 08/26/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to	

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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

Page 208 of 211

Action 377703

QUESTIONS (continued)		
Operator: MATADOR PRODUCTION COMPANY	OGRID: 228937	
One Lincoln Centre Dallas, TX 75240	Action Number: 377703	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
	•	

#### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	the following items must be confirmed as part of any request for deferral of remediation.
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο

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

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Page 209 of 211

QUESTIONS, Page 6

Action 377703

QUES I IONS (continued)		
Operator:	OGRID:	
MATADOR PRODUCTION COMPANY	228937	
One Lincoln Centre	Action Number:	
Dallas, TX 75240	377703	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information		
Last sampling notification (C-141N) recorded	370783	
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024	
What was the (estimated) number of samples that were to be gathered	3	
What was the sampling surface area in square feet	600	

**Remediation Closure Request** 

Yes
Tes
Yes
No
Yes
10865
182
Yes
0
0
This spill was entirely on-pad and therefore the release area falls under the Site Closure Criteria
closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or tially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing notification to the OCD when reclamation and re-vegetation are complete.
1

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: jason.touchet@matadorresources.com Date: 08/26/2024
--	--

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

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

QUESTIONS, Page 7

Page 210 of 211

Action 377703

QUESTIONS (continued)		
Operator: MATADOR PRODUCTION COMPANY	OGRID: 228937	
One Lincoln Centre Dallas, TX 75240	Action Number: 377703	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		

#### Reclamation Report

Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission No

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

Page 211 of 211 CONDITIONS

Action 377703

Operator: OGRID: MATADOR PRODUCTION COMPANY 228937 One Lincoln Centre Action Number: Dallas, TX 75240 377703 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

#### CONDITIONS

Created By		Condition Date
scwells	None	8/28/2024