



November 20, 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  
Toque State Tank Battery  
Incident Number nAPP2410854853  
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 Toque State Tank Battery (Site). 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 crude oil 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 nAPP2410854853.

**SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit L, Section 06, Township 21 South, Range 33 East, in Lea County, New Mexico (32.5076443°, -103.6146623°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO).

On April 16, 2024, a flowline on pad ruptured, resulting in the release of approximately 23 barrels (bbls) of crude oil onto the caliche pad. A vacuum truck successfully recovered 7 bbls of crude oil. Matador reported the release to the New Mexico Oil Conservation Division (NMOCD) via on the NMOCD Portal April 17, 2024, and submitted a Release Notification Form C-141 (Form C-141) on April 21, 2024. The release was assigned Incident Number nAPP2410854853. The Form C-141 can be referenced on the NMOCD Portal.

**SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well, CP-02022 POD1, located approximately 344 feet south 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 a freshwater emergent wetland area, located approximately 1.07 miles south 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 (medium 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 April 17, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Two preliminary soil samples (SS02 and SS03) were collected around the release extent at ground surface to assess the lateral extent of the impacted area.

On May 17, 2024, and June 4, 2024, Ensolum personnel returned to the Site to continue Site assessment activities. Three boreholes (BH01 through BH03) were advanced within the release extent to assess the vertical extent of impacted soil; boreholes BH01 through BH03 were advanced to a depth of 1.5 feet bgs. Two preliminary soil samples (SS01 and SS04) were collected around the release extent at ground surface to assess the lateral extent of the impacted area.

The preliminary soil samples were field screened for chloride utilizing Mohr Method titration and Hach® Chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation of delineation activities is included in Appendix B. Field screening results and observations for the boreholes were logged on lithologic/soil sampling logs, which are included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice 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

From July 22 through 26, 2024, impacted soil was excavated from the release area as indicated by visible staining and delineation soil sampling results. Excavation activities were performed using a track hoe, hydrovac, hand digging, and belly dump trucks. The excavation occurred on the north side of the lined secondary tank containment and around associated production equipment. To direct excavation activities, Ensolum personnel screened soil for chloride utilizing chloride QuanTab® test strips and for TPH utilizing a PetroFLAG® soil analyzer system.

Following removal of impacted soil, Ensolum personnel collected 5-point composite soil samples representing no more than 200 square feet from the floor of the scrape. 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 FS19) were collected from the floor of the excavation at depths ranging from 1.5 feet to 8.5 feet bgs. Eight sidewall soil samples (SW01 through SW08) were collected every 200 square feet from the sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The final excavation extent measured approximately 3,880 square feet. A total of approximately 617 cubic yards of impacted soil was removed during the excavation activities. Approximately 100 cubic yards of the impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico; the remaining 517 cubic yards of impacted soil was transported and properly disposed of at the Lea Land Facility in Carlsbad, New Mexico. After completion of confirmation sampling, the excavation areas were secured with fencing.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for preliminary soil samples (SS01 through SS04) were all in compliance with the Site Closure Criteria and with the strictest Closure Criteria per NMOCD Table I at ground surface. Laboratory analytical results for boreholes (BH01 through BH05) indicated all COCs were in compliance with the Site Closure Criteria at ground surface. Laboratory analytical results for boreholes BH01 through BH03 indicated COCs were in compliance with the strictest Closure Criteria per NMOCD Table I at 1.5 feet bgs.

Laboratory analytical results for excavation floor soil samples (FS01 through FS19) indicated all COC concentrations were compliant with the Site Closure Criteria at depths ranging from 1.5 feet to 8.5 feet bgs. Laboratory analytical results are summarized in Tables 1, 2, and 3 and the complete laboratory analytical reports are included as Appendix D.

## CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 2024 release of crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were in compliance with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted and waste-containing soil has mitigated adverse conditions at this Site. Depth to groundwater has been estimated to be greater than 105 feet bgs and no other sensitive receptors were identified near the release extent. Matador believes these remedial actions are protective of

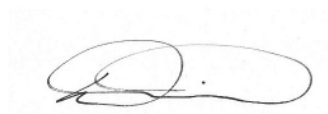
human health, the environment, and groundwater. As such, Matador respectfully requests closure for Incident Number nAPP2410854853.

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

Sincerely,  
**Ensolum, LLC**



Ashley Giovengo  
Senior Scientist



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 1	Soil Sample Analytical Results (Delineation Soil Samples)
Table 2	Soil 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	NMOCD Notifications





FIGURES

## Site Receptor Map

**Matador Production Company**  
**Toque State Tank Battery**  
 Incident Number: nAPP2410854853  
 Unit L, Section 06, T 21S, R 33E  
 Lea County, New Mexico

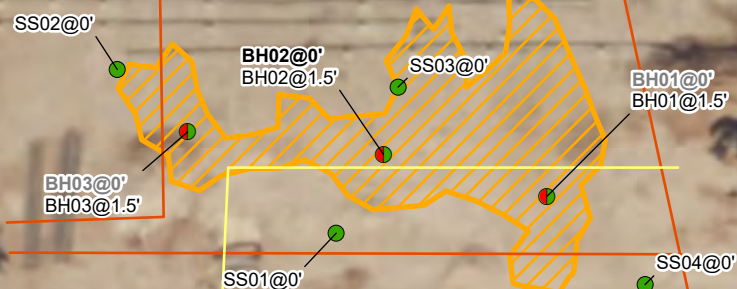
## FIGURE

1



## Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Previously Exceeding Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- ▨ Release Extent selection



Notes:  
 Sample ID @ Depth Below Ground Surface.  
 Samples in bold indicate sample exceeded applicable closure criteria.

0 12.5 25 50 75 100  
 Feet

Sources: Environmental Systems Research Institute (ESRI)



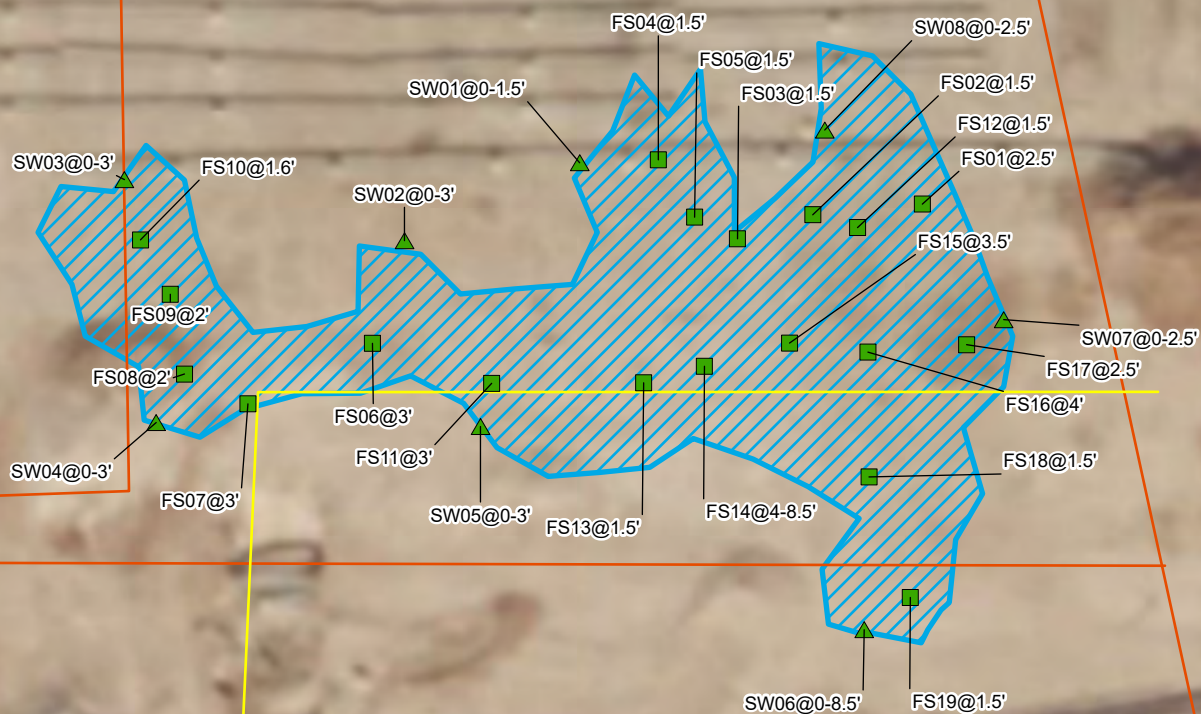
## Delineation Soil Sample Locations

Matador Production Company  
 Toque State Tank Battery  
 Incident Number: nAPP2410854853  
 Unit L, Section 06, T 21S, R 33E  
 Lea County, New Mexico

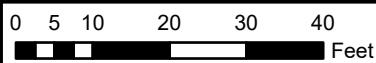
FIGURE  
 2

**Legend**

- Confirmation Floor Sample in Compliance with Closure Criteria
- ▲ Confirmation Floor Sample in Compliance with Closure Criteria
- Electric Utility Line
- Oil and Gas Utility Line
- ▨ Excavation Extent selection



Notes:  
Sample ID @ Depth Below Ground Surface.



Sources: Environmental Systems Research Institute (ESRI)

**Confirmation Soil Sample Locations**

Matador Production Company  
Toque State Tank Battery  
Incident Number: nAPP2410854853  
Unit L, Section 06, T 21S, R 33E  
Lea County, New Mexico

**FIGURE****3**



TABLES





**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Toque State Tank Battery  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Delineation Soil Samples</b>										
SS01	6/4/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	120
SS02	4/17/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	26.5
SS03	4/17/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	379
SS04	6/4/2024	0	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	148
BH01	5/17/2024	0	3.1530	15.4130	120	11,800	4,140	<b>11,920</b>	<b>16,060</b>	8,810
BH01	5/17/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	75.5
BH02	5/17/2024	0	<0.0250	<0.0500	676	26,100	8,670	<b>9,346</b>	<b>35,446</b>	4,760
BH02	5/17/2024	1.5	<0.0250	<0.0500	<20.0	56.9	<50.0	56.9	56.9	<20.0
BH03	5/17/2024	0	0.7260	4.8890	73.5	7,870	2,680	<b>7,943.5</b>	<b>10,623.5</b>	5,360
BH03	5/17/2024	1.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

&lt;: Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes





**TABLE 2**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Toque State Tank Battery  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Excavation Floor Soil Samples</b>										
FS01	7/23/2024	2.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	73.0
FS02	7/23/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	46.6
FS03	7/23/2024	1.5	<0.0250	<0.0250	<20.0	29.5	<50.0	29.5	29.5	268
FS04	7/23/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	28.5
FS05	7/24/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	<20.0
FS06	7/25/2024	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	26.4
FS07	7/25/2024	3	<0.0250	<0.0250	<20.0	154	65.5	154	219.5	53.5
FS08	7/25/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	51.7
FS09	7/25/2024	2	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	84.5
FS10	7/24/2024	1.6	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	40.7
FS11	7/25/2024	3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	27.5
FS12	7/24/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	29.9
FS13	7/24/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	78.2
FS14	7/25/2024	4-8.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	253
FS15	7/25/2024	3.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	866
FS16	7/25/2024	4	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	1,680
FS17	7/25/2024	2.5	<0.0250	<0.0250	<20.0	397	170	397	567	748
FS18	7/24/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	<20.0
FS19	7/24/2024	1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	<20.0

**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

&lt;": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



**TABLE 3**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Toque State Tank Battery  
 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)
<b>NMOCD Table I Closure Criteria (NMAC 19.15.29)</b>			<b>10</b>	<b>50</b>	<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1,000</b>	<b>2,500</b>	<b>20,000</b>
<b>Sidewall Soil Samples</b>										
SW01	7/23/2024	0-1.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	<20.0
SW02	7/25/2024	0-3	<0.0250	<0.0250	<20.0	33.4	<50.0	33.4	33.4	25.5
SW03	7/25/2024	0-3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	<20.0
SW04	7/25/2024	0-3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	<20.0
SW05	7/25/2024	0-3	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	89.7
SW06	7/25/2024	0-8.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	<20.0
SW07	7/25/2024	0-2.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	71.3
SW08	7/25/2024	0-2.5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<20.0	<25.0	86.3

**Notes:**

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

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Grey text represents samples that have been excavated

&lt;": Laboratory Analytical result is less than reporting limit

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

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes



## APPENDIX A

### Well Log and Record

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO (WELL NO) POD 1		WELL TAG ID NO N/A		OSE FILE NO(S) CP 02022 POD1			
	WELL OWNER NAME(S) Matador Production Company				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS R347 N26th Rural Street 2nd Floor				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 30	SECONDS 23.98 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit K, Section 06, T 21S, R 33E, Lea, County								
2. DRILLING & CASING INFORMATION	LICENSE NO WD1188		NAME OF LICENSED DRILLER John Scarborough		NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc.			
	DRILLING STARTED 11/12/2024	DRILLING ENDED 11/12/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	5.00	Soil Boring				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				N/A				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2



4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	10	10	Sand with Gravel, Red, Fine grained with small to large gravel	Y ✓ N	
	10	20	10	Sand with Gravel, Red, Fine grained with small to large gravel	Y ✓ N	
	20	30	10	Silty Sand, Red, Fine grained	Y ✓ N	
	30	40	10	Silty Sand, Red, Fine grained	Y ✓ N	
	40	50	10	Silty Sand, Red, Fine grained	Y ✓ N	
	50	60	10	Silty Gravel with Sand, Red, Very fine to Medium Grained with Large Gravel	Y ✓ N	
	60	70	10	Silty Gravel with Sand, Red, Very fine to Medium Grained with Large Gravel	Y ✓ N	
	70	80	10	Silty Gravel with Sand, Red, Very fine to Medium Grained with Large Gravel	Y ✓ N	
	80	90	10	Silty Gravel with Sand, Red, Very fine to Medium Grained with Large Gravel	Y ✓ N	
	90	100	10	Fat Clay with Gravel, Red, Very fine with small to large gravel	Y ✓ N	
	100	105	5	Fat Clay with Gravel, Red, Very fine with small to large gravel	Y ✓ N	
	105	105	0	Fat Clay with Gravel, Red, Very fine with small to large gravel	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST, RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	Scott Scarborough		Digitally signed by Scott Scarborough Date: 2024.11.18 13:47:52 -0700		DATE	
SIGNATURE OF DRILLER / PRINT SIGNED NAME						

FOR OSE INTERNAL USE

WR-20 WELL RECORD &amp; LOG (Version 04/30/2019)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2



## APPENDIX B

### Photographic Log

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# Photographic Log

Matador Production Company

Toque State Tank Battery

Incident Number: nAPP2410854853



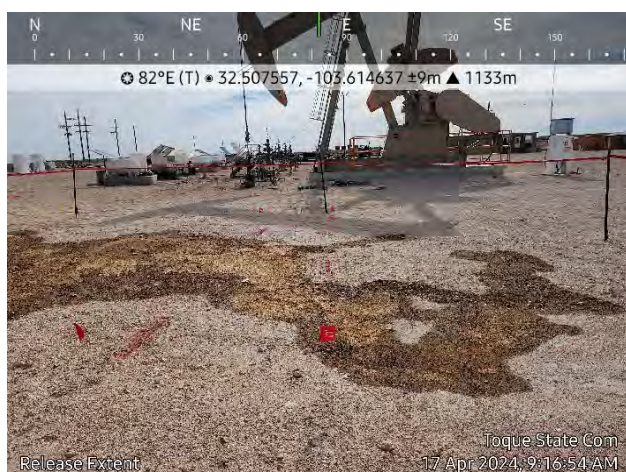
Photograph 1  
Description: Site Signage  
View: East

Date: 04/17/2024



Photograph 2  
Description: Release Extent  
View: West

Date: 04/17/2024



Photograph 3  
Description: Release Extent  
View: East

Date: 04/17/2024



Photograph 4  
Description: Release Extent  
View: Southwest

Date: 04/17/2024





# Photographic Log

Matador Production Company

Toque State Tank Battery

Incident Number: nAPP2410854853



Photograph 5 Date: 05/17/2024  
Description: Vertical Delineation Sampling  
View: Southeast



Photograph 6 Date: 05/17/2024  
Description: Vertical Delineation Sampling  
View: East



Photograph 7 Date: 05/17/2024  
Description: Vertical Delineation Sampling  
View: East



Photograph 8 Date: 06/04/2024  
Description: Lateral Delineation Sampling  
View: East



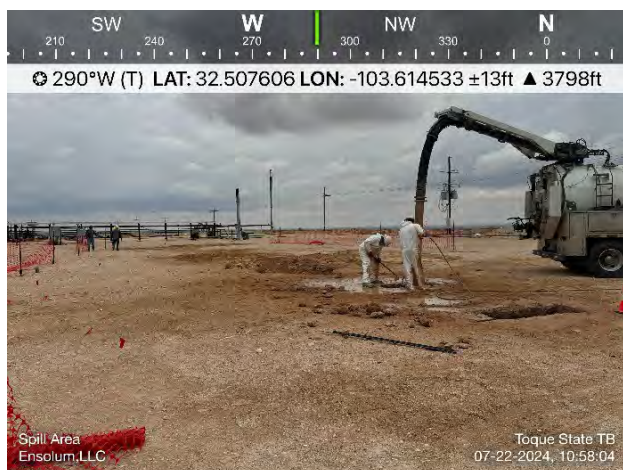


# Photographic Log

Matador Production Company

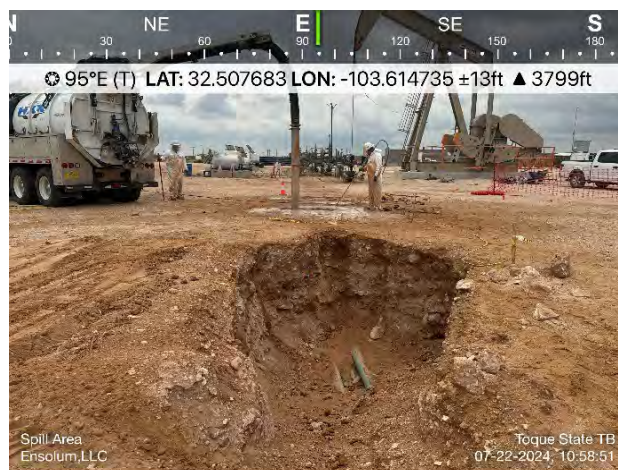
Toque State Tank Battery

Incident Number: nAPP2410854853



Photograph 9  
Description: Hydrovac Lines  
View: West

Date: 07/22/2024



Photograph 10  
Description: Hydrovac Lines  
View: East

Date: 07/22/2024



Photograph 11  
Description: Hydrovac Lines  
View: East

Date: 07/22/2024



Photograph 12  
Description: Excavation Activities  
View: Southwest

Date: 07/23/2024



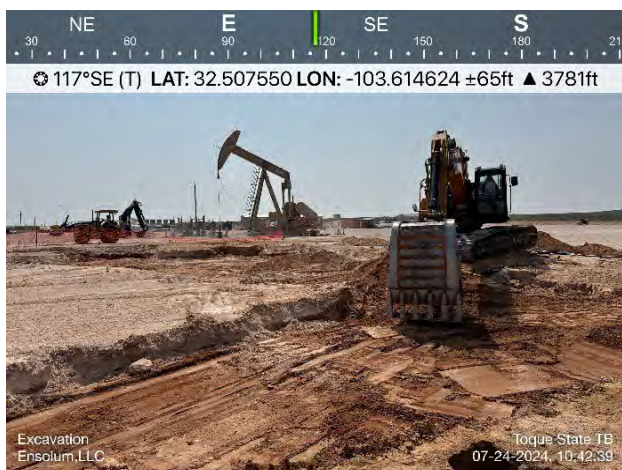


# Photographic Log

Matador Production Company

Toque State Tank Battery

Incident Number: nAPP2410854853



Photograph 13

Date: 07/24/2024

Description: Excavation Activities

View: Southeast

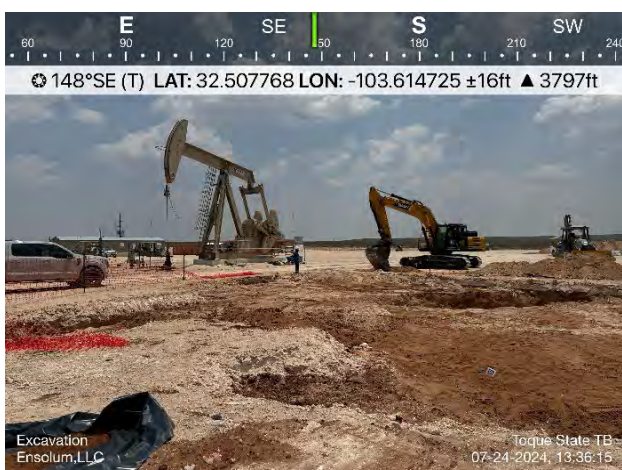


Photograph 14

Date: 07/24/2024

Description: Excavation Activities

View: Southwest

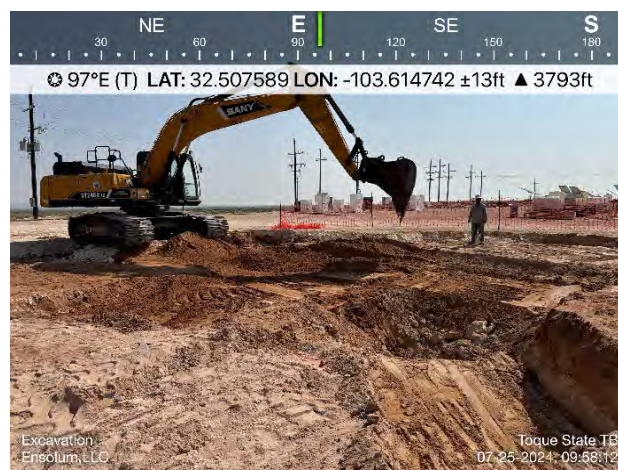


Photograph 15

Date: 07/24/2024

Description: Excavation Activities

View: Southeast



Photograph 16

Date: 07/25/2024

Description: Excavation Activities

View: East



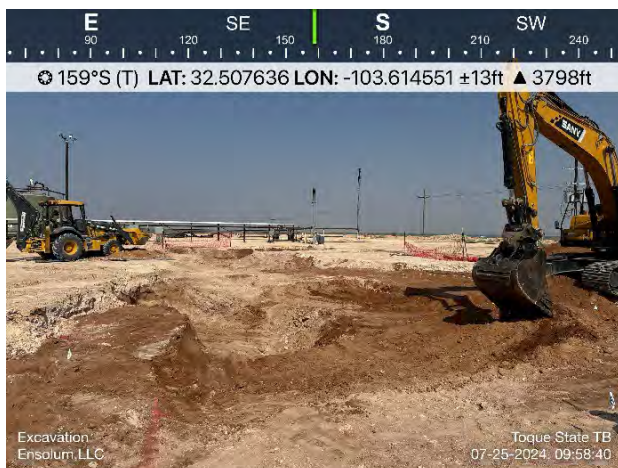


## Photographic Log

Matador Production Company

Toque State Tank Battery

Incident Number: nAPP2410854853



Photograph 17

Date: 07/25/2024

Description: Excavation Activities

View: South



Photograph 18

Date: 07/25/2024

Description: Excavation Activities

View: Southwest



Photograph 19

Date: 07/25/2024

Description: Excavation Activities

View: Southeast



Photograph 20

Date: 07/25/2024

Description: Excavation Activities

View: East





## APPENDIX C


### Lithologic Soil Sampling Logs

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 <b>ENSOLUM</b>								Sample Name: BH01		Date: 5/17/24	
								Site Name: Toque State Com #502H			
								Incident Number: nAPP2410854853			
								Job Number: 03A2270041			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.50766, -103.61461								Hole Diameter: 3"		Total Depth: 1.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH01	0	0	CCHE	Moist, Caliche, Dark Stain, Non Plyable, Non Plasticity			
M			N	BH01	1	1	SP-SM	Moist, Red Sand, No Stain, Non Plyable, Non Plasticity			
M	ND		N	BH01	1.5						
Total Depth @ 1.5 ft bgs.											

 <b>ENSOLUM</b>								Sample Name: BH02		Date: 5/17/24	
								Site Name: Toque State Com #502H			
								Incident Number: nAPP2410854853			
								Job Number: 03A2270041			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: Israel Estrella		Method: Hand Auger	
Coordinates: 32.50764, -103.61475								Hole Diameter: 3"		Total Depth: 1.5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
M			Y	BH02	0	0	CCHE	Moist, Caliche, Dark Stain, Non Plyable, Non Plasticity			
M			N	BH02	1	1	SP-SM	Moist, Red Sand, No Stain, Non Plyable, Non Plasticity			
M	ND		N	BH02	1.5						
Total Depth @ 1.5 ft bgs.											

 <b>ENSOLUM</b>		Sample Name: BH03		Date: 5/17/24				
		Site Name: Toque State Com #502H						
		Incident Number: nAPP2410854853						
		Job Number: 03A2270041						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Coordinates: 32.50766, -103.61491			Logged By: Israel Estrella		Method: Hand Auger			
			Hole Diameter: 3"		Total Depth: 1.5'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M			Y	BH03	0	0	CCHE	Moist, Caliche, Dark Stain, Non Plyable, Non Plasticity
M			N	BH03	1	1	SP-SM	Moist, Red Sand, No Stain, Non Plyable, Non Plasticity
M	ND		N	BH03	1.5			
Total Depth @ 1.5 ft bgs.								



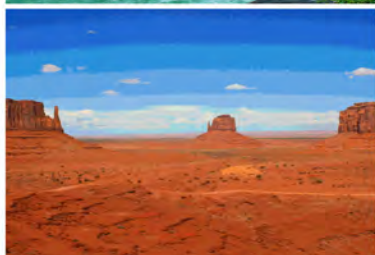
## APPENDIX D

### Laboratory Analytical Reports & Chain-of-Custody Documentation

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Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Toque State Com #502 H

Work Order: E404212

Job Number: 23003-C-0001

Received: 4/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/24/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 4/24/24



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

Project Name: Toque State Com #502 H  
Workorder: E404212  
Date Received: 4/19/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/19/2024 7:45:00AM, under the Project Name: Toque State Com #502 H.

The analytical test results summarized in this report with the Project Name: Toque State Com #502 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/24/24 09:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS03 -0'	E404212-01A	Soil	04/17/24	04/19/24	Glass Jar, 4 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 9:27:16AM
---	--	----------------------------------

SS03 -0'  
E404212-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2416116	
Benzene	ND	0.0250	1	04/19/24	04/20/24	
Ethylbenzene	ND	0.0250	1	04/19/24	04/20/24	
Toluene	ND	0.0250	1	04/19/24	04/20/24	
o-Xylene	ND	0.0250	1	04/19/24	04/20/24	
p,m-Xylene	ND	0.0500	1	04/19/24	04/20/24	
Total Xylenes	ND	0.0250	1	04/19/24	04/20/24	
Surrogate: 4-Bromochlorobenzene-PID	94.1 %	70-130		04/19/24	04/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2416116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/24	04/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.5 %	70-130		04/19/24	04/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2417004	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/23/24	
Surrogate: n-Nonane	89.3 %	50-200		04/22/24	04/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2416119	
Chloride	379	20.0	1	04/19/24	04/21/24	



## QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 9:27:16AM

## Volatile Organics by EPA 8021B

Analyst: BA

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

## Blank (2416116-BLK1)

Prepared: 04/19/24 Analyzed: 04/20/24

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	7.65		8.00		95.6	70-130			

## LCS (2416116-BS1)

Prepared: 04/19/24 Analyzed: 04/20/24

Benzene	5.47	0.0250	5.00		109	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
Toluene	5.56	0.0250	5.00		111	70-130			
o-Xylene	5.56	0.0250	5.00		111	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.7	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

## Matrix Spike (2416116-MS1)

Source: E404208-04

Prepared: 04/19/24 Analyzed: 04/20/24

Benzene	4.94	0.0250	5.00	ND	98.9	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	5.03	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		96.9	70-130			

## Matrix Spike Dup (2416116-MSD1)

Source: E404208-04

Prepared: 04/19/24 Analyzed: 04/20/24

Benzene	5.45	0.0250	5.00	ND	109	54-133	9.81	20	
Ethylbenzene	5.43	0.0250	5.00	ND	109	61-133	9.54	20	
Toluene	5.54	0.0250	5.00	ND	111	61-130	9.75	20	
o-Xylene	5.56	0.0250	5.00	ND	111	63-131	9.87	20	
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131	9.36	20	
Total Xylenes	16.6	0.0250	15.0	ND	111	63-131	9.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 9:27:16AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

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

Blank (2416116-BLK1) Prepared: 04/19/24 Analyzed: 04/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		8.00		85.5	70-130			

LCS (2416116-BS2) Prepared: 04/19/24 Analyzed: 04/22/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

Matrix Spike (2416116-MS2) Source: E404208-04 Prepared: 04/19/24 Analyzed: 04/20/24

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.4	70-130			

Matrix Spike Dup (2416116-MSD2) Source: E404208-04 Prepared: 04/19/24 Analyzed: 04/20/24

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	82.9	70-130	3.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 9:27:16AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

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

Blank (2417004-BLK1) Prepared: 04/22/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

LCS (2417004-BS1) Prepared: 04/22/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	45.4		50.0		90.9	50-200			

Matrix Spike (2417004-MS1) Source: E404168-03 Prepared: 04/22/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			

Matrix Spike Dup (2417004-MSD1) Source: E404168-03 Prepared: 04/22/24 Analyzed: 04/23/24

Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	0.578	20	
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 9:27:16AM
---	--	----------------------------------

Anions by EPA 300.0/9056A

Analyst: IY

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

Blank (2416119-BLK1)					Prepared: 04/19/24 Analyzed: 04/20/24				
Chloride	ND	20.0							
LCS (2416119-BS1)					Prepared: 04/19/24 Analyzed: 04/20/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2416119-MS1)					Source: E404168-08		Prepared: 04/19/24 Analyzed: 04/20/24		
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2416119-MSD1)					Source: E404168-08		Prepared: 04/19/24 Analyzed: 04/20/24		
Chloride	256	20.0	250	ND	102	80-120	0.259	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:	Toque State Com #502 H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/24/24 09:27

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

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

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

Page 11 of 12



## Envirotech Analytical Laboratory

Printed: 4/19/2024 10:59:40AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.  
 Phone: (972) 371-5200  
 Email: agiovnago@ensolum.com

Date Received: 04/19/24 07:45  
 Date Logged In: 04/19/24 10:29  
 Due Date: 04/25/24 17:00 (4 day TAT)

Work Order ID: E404212  
 Logged In By: Angelina Pineda

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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

\_\_\_\_\_  
 Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Toque State Com #502 H

Work Order: E404213

Job Number: 23003-C-0001

Received: 4/19/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/24/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 4/24/24



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

Project Name: Toque State Com #502 H  
Workorder: E404213  
Date Received: 4/19/2024 7:45:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/19/2024 7:45:00AM, under the Project Name: Toque State Com #502 H.

The analytical test results summarized in this report with the Project Name: Toque State Com #502 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/24/24 09:25

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS02 -0'	E404213-01A	Soil	04/17/24	04/19/24	Glass Jar, 4 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 9:25:50AM
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SS02 -0'  
E404213-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2416116	
Benzene	ND	0.0250	1	04/19/24	04/20/24	
Ethylbenzene	ND	0.0250	1	04/19/24	04/20/24	
Toluene	ND	0.0250	1	04/19/24	04/20/24	
o-Xylene	ND	0.0250	1	04/19/24	04/20/24	
p,m-Xylene	ND	0.0500	1	04/19/24	04/20/24	
Total Xylenes	ND	0.0250	1	04/19/24	04/20/24	
Surrogate: 4-Bromochlorobenzene-PID	93.6 %	70-130		04/19/24	04/20/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2416116	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/19/24	04/20/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.2 %	70-130		04/19/24	04/20/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2417004	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/22/24	04/23/24	
Oil Range Organics (C28-C36)	ND	50.0	1	04/22/24	04/23/24	
Surrogate: n-Nonane	89.3 %	50-200		04/22/24	04/23/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2416119	
Chloride	26.5	20.0	1	04/19/24	04/21/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 9:25:50AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416116-BLK1) Prepared: 04/19/24 Analyzed: 04/20/24

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	7.65		8.00		95.6	70-130			

LCS (2416116-BS1) Prepared: 04/19/24 Analyzed: 04/20/24

Benzene	5.47	0.0250	5.00		109	70-130			
Ethylbenzene	5.44	0.0250	5.00		109	70-130			
Toluene	5.56	0.0250	5.00		111	70-130			
o-Xylene	5.56	0.0250	5.00		111	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.7	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.0	70-130			

Matrix Spike (2416116-MS1) Source: E404208-04 Prepared: 04/19/24 Analyzed: 04/20/24

Benzene	4.94	0.0250	5.00	ND	98.9	54-133			
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133			
Toluene	5.02	0.0250	5.00	ND	100	61-130			
o-Xylene	5.03	0.0250	5.00	ND	101	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.1	0.0250	15.0	ND	101	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		96.9	70-130			

Matrix Spike Dup (2416116-MSD1) Source: E404208-04 Prepared: 04/19/24 Analyzed: 04/20/24

Benzene	5.45	0.0250	5.00	ND	109	54-133	9.81	20	
Ethylbenzene	5.43	0.0250	5.00	ND	109	61-133	9.54	20	
Toluene	5.54	0.0250	5.00	ND	111	61-130	9.75	20	
o-Xylene	5.56	0.0250	5.00	ND	111	63-131	9.87	20	
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131	9.36	20	
Total Xylenes	16.6	0.0250	15.0	ND	111	63-131	9.53	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 9:25:50AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416116-BLK1) Prepared: 04/19/24 Analyzed: 04/20/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.84		8.00		85.5	70-130			

LCS (2416116-BS2) Prepared: 04/19/24 Analyzed: 04/22/24

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.36		8.00		92.0	70-130			

Matrix Spike (2416116-MS2) Source: E404208-04 Prepared: 04/19/24 Analyzed: 04/20/24

Gasoline Range Organics (C6-C10)	40.1	20.0	50.0	ND	80.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.4	70-130			

Matrix Spike Dup (2416116-MSD2) Source: E404208-04 Prepared: 04/19/24 Analyzed: 04/20/24

Gasoline Range Organics (C6-C10)	41.5	20.0	50.0	ND	82.9	70-130	3.43	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.1	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	4/24/2024 9:25:50AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2417004-BLK1)					Prepared: 04/22/24 Analyzed: 04/23/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.0		50.0		96.0	50-200			

LCS (2417004-BS1)					Prepared: 04/22/24 Analyzed: 04/23/24				
Diesel Range Organics (C10-C28)	249	25.0	250		99.5	38-132			
Surrogate: n-Nonane	45.4		50.0		90.9	50-200			

Matrix Spike (2417004-MS1)					Source: E404168-03		Prepared: 04/22/24 Analyzed: 04/23/24		
Diesel Range Organics (C10-C28)	254	25.0	250	ND	101	38-132			
Surrogate: n-Nonane	46.9		50.0		93.8	50-200			

Matrix Spike Dup (2417004-MSD1)					Source: E404168-03		Prepared: 04/22/24 Analyzed: 04/23/24		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132	0.578	20	
Surrogate: n-Nonane	46.9		50.0		93.9	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-C-0001 Project Manager: Ashley Giovengo	Reported: 4/24/2024 9:25:50AM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2416119-BLK1)					Prepared: 04/19/24 Analyzed: 04/20/24				
Chloride	ND	20.0							
LCS (2416119-BS1)					Prepared: 04/19/24 Analyzed: 04/20/24				
Chloride	251	20.0	250		101	90-110			
Matrix Spike (2416119-MS1)					Source: E404168-08		Prepared: 04/19/24 Analyzed: 04/20/24		
Chloride	256	20.0	250	ND	103	80-120			
Matrix Spike Dup (2416119-MSD1)					Source: E404168-08		Prepared: 04/19/24 Analyzed: 04/20/24		
Chloride	256	20.0	250	ND	102	80-120	0.259	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:	Toque State Com #502 H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-C-0001	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	04/24/24 09:25

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


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

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



[illegible]

**Additional Instructions:** Please CC: [cburton@ensolum.com](mailto:cburton@ensolum.com), [agiovengo@ensolum.com](mailto:agiovengo@ensolum.com), [chamilton@ensolum.com](mailto:chamilton@ensolum.com), [lestrella@ensolum.com](mailto:lestrella@ensolum.com)

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.					
Sampled by: <u>Chad Hamilton</u>											
Relinquished by: (Signature) 		Date <u>4/18/24</u>	Time <u>1021</u>	Received by: (Signature) <u>Michelle Gonzales</u>		Date <u>4-18-24</u>	Time <u>1024</u>	Lab Use Only Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>			
Relinquished by: (Signature) <u>Michelle Gonzales</u>		Date <u>4-18-24</u>	Time <u>1552</u>	Received by: (Signature) <u>Andrew MBB</u>		Date <u>4-18-24</u>	Time <u>1700</u>				
Relinquished by: (Signature) <u>Andrew MBB</u>		Date <u>4-18-24</u>	Time <u>2400</u>	Received by: (Signature) <u>AG</u>		Date <u>4/19/24</u>	Time <u>0745</u>				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					

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



## Envirotech Analytical Laboratory

Printed: 4/19/2024 11:03:01AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.  
 Phone: (972) 371-5200  
 Email: agiovngo@ensolum.com

Date Received: 04/19/24 07:45  
 Date Logged In: 04/19/24 10:35  
 Due Date: 04/25/24 17:00 (4 day TAT)

Work Order ID: E404213  
 Logged In By: Angelina Pineda

Chain of Custody (COC)

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

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

Carrier: CourierSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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

Date



envirotech Inc.

Report to:  
Ashley Giovengo



# envirotech

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## Analytical Report

Matador Resources, LLC.

Project Name: Toque State Com #502 H

Work Order: E405288

Job Number: 23003-0002

Received: 5/21/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/31/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 5/31/24

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



Project Name: Toque State Com #502 H  
Workorder: E405288  
Date Received: 5/21/2024 8:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/21/2024 8:00:00AM, under the Project Name: Toque State Com #502 H.

The analytical test results summarized in this report with the Project Name: Toque State Com #502 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
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**Michelle Golzaes**  
Client Representative  
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Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 05/31/24 16:21
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01-0'	E405288-01A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
BH01-1.5'	E405288-02A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
BH02-0'	E405288-03A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
BH02-1.5'	E405288-04A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
BH03-0'	E405288-05A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.
BH03-1.5'	E405288-06A	Soil	05/17/24	05/21/24	Glass Jar, 2 oz.





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/31/2024 4:21:46PM
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BH01-0'  
E405288-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Benzene	0.293	0.0250	1	05/24/24	05/29/24	
Ethylbenzene	2.86	0.0250	1	05/24/24	05/29/24	
Toluene	3.20	0.0250	1	05/24/24	05/29/24	
o-Xylene	3.14	0.0250	1	05/24/24	05/29/24	
p,m-Xylene	5.92	0.0500	1	05/24/24	05/29/24	
Total Xylenes	9.06	0.0250	1	05/24/24	05/29/24	
Surrogate: 4-Bromochlorobenzene-PID	117 %	70-130		05/24/24	05/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Gasoline Range Organics (C6-C10)	120	20.0	1	05/24/24	05/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	113 %	70-130		05/24/24	05/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2422013	
Diesel Range Organics (C10-C28)	11800	125	5	05/28/24	05/29/24	
Oil Range Organics (C28-C36)	4140	250	5	05/28/24	05/29/24	
Surrogate: n-Nonane	148 %	50-200		05/28/24	05/29/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2421187	
Chloride	8810	200	10	05/25/24	05/28/24	

## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
5/31/2024 4:21:46PM

BH01-1.5'

E405288-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Benzene	ND	0.0250	1	05/24/24	05/29/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/29/24	
Toluene	ND	0.0250	1	05/24/24	05/29/24	
o-Xylene	ND	0.0250	1	05/24/24	05/29/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/29/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		05/24/24	05/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		05/24/24	05/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		05/28/24	05/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2421187	
Chloride	75.5	20.0	1	05/25/24	05/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/31/2024 4:21:46PM
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BH02-0'

E405288-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Benzene	ND	0.125	5	05/24/24	05/30/24	
Ethylbenzene	17.9	0.125	5	05/24/24	05/30/24	
Toluene	12.8	0.125	5	05/24/24	05/30/24	
o-Xylene	18.5	0.125	5	05/24/24	05/30/24	
p,m-Xylene	37.5	0.250	5	05/24/24	05/30/24	
Total Xylenes	56.0	0.125	5	05/24/24	05/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	05/24/24	05/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Gasoline Range Organics (C6-C10)	676	100	5	05/24/24	05/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		118 %	70-130	05/24/24	05/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422013	
Diesel Range Organics (C10-C28)	26100	250	10	05/28/24	05/30/24	
Oil Range Organics (C28-C36)	8670	500	10	05/28/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
		318 %	50-200	05/28/24	05/30/24	S5
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2421187	
Chloride	4760	40.0	2	05/25/24	05/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/31/2024 4:21:46PM
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BH02-1.5'

E405288-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Benzene	ND	0.0250	1	05/24/24	05/30/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/30/24	
Toluene	ND	0.0250	1	05/24/24	05/30/24	
o-Xylene	ND	0.0250	1	05/24/24	05/30/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/30/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		05/24/24	05/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		05/24/24	05/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422013	
Diesel Range Organics (C10-C28)	56.9	25.0	1	05/28/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		05/28/24	05/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2421187	
Chloride	ND	20.0	1	05/25/24	05/28/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/31/2024 4:21:46PM
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BH03-0'

E405288-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Benzene	ND	0.0250	1	05/24/24	05/30/24	
Ethylbenzene	0.726	0.0250	1	05/24/24	05/30/24	
Toluene	0.103	0.0250	1	05/24/24	05/30/24	
o-Xylene	1.41	0.0250	1	05/24/24	05/30/24	
p,m-Xylene	2.66	0.0500	1	05/24/24	05/30/24	
Total Xylenes	4.06	0.0250	1	05/24/24	05/30/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		116 %	70-130	05/24/24	05/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Gasoline Range Organics (C6-C10)	73.5	20.0	1	05/24/24	05/30/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		111 %	70-130	05/24/24	05/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422013	
Diesel Range Organics (C10-C28)	7870	125	5	05/28/24	05/30/24	
Oil Range Organics (C28-C36)	2680	250	5	05/28/24	05/30/24	
<i>Surrogate: n-Nonane</i>						
		135 %	50-200	05/28/24	05/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2421187	
Chloride	5360	100	5	05/25/24	05/28/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 5/31/2024 4:21:46PM
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BH03-1.5'

E405288-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Benzene	ND	0.0250	1	05/24/24	05/30/24	
Ethylbenzene	ND	0.0250	1	05/24/24	05/30/24	
Toluene	ND	0.0250	1	05/24/24	05/30/24	
o-Xylene	ND	0.0250	1	05/24/24	05/30/24	
p,m-Xylene	ND	0.0500	1	05/24/24	05/30/24	
Total Xylenes	ND	0.0250	1	05/24/24	05/30/24	
Surrogate: 4-Bromochlorobenzene-PID	100 %	70-130		05/24/24	05/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2421150	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/24/24	05/30/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		05/24/24	05/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2422013	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/28/24	05/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	05/28/24	05/30/24	
Surrogate: n-Nonane	103 %	50-200		05/28/24	05/30/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2421187	
Chloride	ND	20.0	1	05/25/24	05/28/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/31/2024 4:21:46PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421150-BLK1)

Prepared: 05/24/24 Analyzed: 05/29/24

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 7.56 8.00 94.5 70-130

LCS (2421150-BS1)

Prepared: 05/24/24 Analyzed: 05/30/24

Benzene	4.73	0.0250	5.00		94.5	70-130			
Ethylbenzene	4.72	0.0250	5.00		94.3	70-130			
Toluene	4.85	0.0250	5.00		96.9	70-130			
o-Xylene	4.82	0.0250	5.00		96.3	70-130			
p,m-Xylene	9.73	0.0500	10.0		97.3	70-130			
Total Xylenes	14.5	0.0250	15.0		96.9	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.46 8.00 93.2 70-130

LCS Dup (2421150-BSD1)

Prepared: 05/24/24 Analyzed: 05/30/24

Benzene	5.08	0.0250	5.00		102	70-130	7.23	20	
Ethylbenzene	5.07	0.0250	5.00		101	70-130	7.21	20	
Toluene	5.22	0.0250	5.00		104	70-130	7.33	20	
o-Xylene	5.19	0.0250	5.00		104	70-130	7.48	20	
p,m-Xylene	10.4	0.0500	10.0		104	70-130	7.06	20	
Total Xylenes	15.6	0.0250	15.0		104	70-130	7.20	20	

Surrogate: 4-Bromochlorobenzene-PID 7.37 8.00 92.1 70-130



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/31/2024 4:21:46PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421150-BLK1) Prepared: 05/24/24 Analyzed: 05/29/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.43		8.00		105	70-130			

LCS (2421150-BS2) Prepared: 05/24/24 Analyzed: 05/30/24

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.53		8.00		107	70-130			

LCS Dup (2421150-BSD2) Prepared: 05/24/24 Analyzed: 05/29/24

Gasoline Range Organics (C6-C10)	46.0	20.0	50.0		92.0	70-130	13.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.60		8.00		108	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/31/2024 4:21:46PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422013-BLK1) Prepared: 05/28/24 Analyzed: 05/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.6		50.0		113	50-200			

LCS (2422013-BS1) Prepared: 05/28/24 Analyzed: 05/29/24

Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
Surrogate: n-Nonane	55.8		50.0		112	50-200			

LCS Dup (2422013-BSD1) Prepared: 05/28/24 Analyzed: 05/29/24

Diesel Range Organics (C10-C28)	270	25.0	250		108	38-132	0.281	20	
Surrogate: n-Nonane	56.2		50.0		112	50-200			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	5/31/2024 4:21:46PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2421187-BLK1)					Prepared: 05/25/24 Analyzed: 05/28/24				
Chloride	ND	20.0							
LCS (2421187-BS1)					Prepared: 05/25/24 Analyzed: 05/28/24				
Chloride	250	20.0	250		100	90-110			
LCS Dup (2421187-BSD1)					Prepared: 05/25/24 Analyzed: 05/28/24				
Chloride	252	20.0	250		101	90-110	0.501	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.





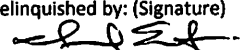



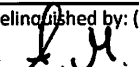

Definitions and Notes

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	05/31/24 16:21

- S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
- 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.

<b>Client:</b> Matador Production Company					<b>Bill To</b>		<b>Lab Use Only</b>						<b>TAT</b>				<b>EPA Program</b>					
<b>Project:</b> Toque State Com #502H					<b>Attention:</b> Ensolum LLC		<b>Lab WO#</b> E405288			<b>Job Number</b> 1303-002			<b>1D</b>	<b>2D</b>	<b>3D</b>	<b>Standard</b>	<b>CWA</b>	<b>SDWA</b>				
<b>Project Manager:</b> Ashley Giovengo					<b>Address:</b> on file																	
<b>Address:</b> 3122 National Parks Hwy					<b>City, State, Zip:</b>		<b>Analysis and Method</b>													<b>RCRA</b>		
<b>City, State, Zip:</b> Carlsbad NM, 88220					<b>Phone:</b> 575-988-0055		<b>TPH GRO/DRO/ORO by 8015</b>	<b>BTEX by 8021</b>	<b>VOC by 8260</b>	<b>Metals 6010</b>	<b>Chloride 300.0</b>	<b>TCEQ TPH</b>	<b>BGDOC NM</b>	<b>GDOC TX</b>	<b>State</b>							
<b>Phone:</b> 575-988-0055					<b>Email:</b> agiovengo@ensolum.com										<b>NM</b>	<b>CO</b>	<b>UT</b>	<b>AZ</b>	<b>TX</b>			
<b>Email:</b> agiovengo@ensolum.com																						
<b>Report due by:</b>																						
<b>Time Sampled</b>	<b>Date Sampled</b>	<b>Matrix</b>	<b>No. of Containers</b>	<b>Sample ID</b>	<b>Lab Number</b>												<b>Remarks</b>					
9:11	5/17/2024	Soil	1	BH01 - 0'	1											X						
9:21	5/17/2024	Soil	1	BH01 - 1.5'	2											X						
9:23	5/17/2024	Soil	1	BH02 - 0'	3											X						
9:27	5/17/2024	Soil	1	BH02 - 1.5'	4											X						
9:29	5/17/2024	Soil	1	BH03 - 0'	5											X						
9:33	5/17/2024	Soil	1	BH03 - 1.5'	6											X						
<b>Additional Instructions:</b> Please CC: cburton@ensolum.com, agiovengo@ensolum.com, chamilton@ensolum.com, ehafft@ensolum.com, iestrella@ensolum.com																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.											
<b>Relinquished by: (Signature)</b>		<b>Date</b>	<b>Time</b>	<b>Received by: (Signature)</b>		<b>Date</b>	<b>Time</b>	<b>Lab Use Only</b>														
		5/20/24	9:03			5/20/24	0903	<b>Received on ice:</b> <input checked="" type="radio"/> Y <input type="radio"/> N														
		5-20-24	1745			5-20-24	1745	<b>T1</b> _____ <b>T2</b> _____ <b>T3</b> _____														
		5.20.24	2345			5/20/24	0800	<b>AVG Temp °C</b> 4														
<b>Sample Matrix:</b> S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											<b>Container Type:</b> g - glass, p - poly/plastic, ag - amber glass, v - VOA											
<b>Note:</b> Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



## Envirotech Analytical Laboratory

Printed: 5/23/2024 3:09:54PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	05/21/24 08:00	Work Order ID:	E405288
Phone:	(972) 371-5200	Date Logged In:	05/20/24 18:24	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	05/28/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

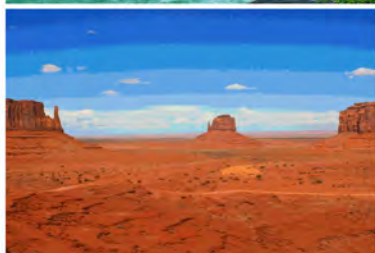
Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Toque State Com #502 H

Work Order: E406052

Job Number: 23003-0002

Received: 6/6/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/12/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 6/12/24

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



Project Name: Toque State Com #502 H  
Workorder: E406052  
Date Received: 6/6/2024 9:00:56AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/6/2024 9:00:56AM, under the Project Name: Toque State Com #502 H.

The analytical test results summarized in this report with the Project Name: Toque State Com #502 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
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[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/12/24 12:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SS01-0'	E406052-01A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.
SS04-0'	E406052-02A	Soil	06/04/24	06/06/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 6/12/2024 12:22:21PM
---	--	-----------------------------------

SS01-0'  
E406052-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
Surrogate: 4-Bromochlorobenzene-PID	91.3 %	70-130		06/06/24	06/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2423112	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	97.6 %	70-130		06/06/24	06/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2423146	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/10/24	
Surrogate: n-Nonane	101 %	50-200		06/07/24	06/10/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2423133	
Chloride	120	20.0	1	06/07/24	06/07/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
6/12/2024 12:22:21PM

SS04-0'

E406052-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423112
Benzene	ND	0.0250	1	06/06/24	06/11/24	
Ethylbenzene	ND	0.0250	1	06/06/24	06/11/24	
Toluene	ND	0.0250	1	06/06/24	06/11/24	
o-Xylene	ND	0.0250	1	06/06/24	06/11/24	
p,m-Xylene	ND	0.0500	1	06/06/24	06/11/24	
Total Xylenes	ND	0.0250	1	06/06/24	06/11/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		06/06/24	06/11/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2423112
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/06/24	06/11/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.3 %	70-130		06/06/24	06/11/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2423146
Diesel Range Organics (C10-C28)	ND	25.0	1	06/07/24	06/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/07/24	06/10/24	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		06/07/24	06/10/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2423133
Chloride	148	20.0	1	06/07/24	06/07/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 12:22:21PM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423112-BLK1) Prepared: 06/06/24 Analyzed: 06/10/24

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	7.15		8.00		89.4	70-130			

LCS (2423112-BS1) Prepared: 06/06/24 Analyzed: 06/10/24

Benzene	4.63	0.0250	5.00		92.5	70-130			
Ethylbenzene	4.60	0.0250	5.00		91.9	70-130			
Toluene	4.66	0.0250	5.00		93.3	70-130			
o-Xylene	4.57	0.0250	5.00		91.3	70-130			
p,m-Xylene	9.31	0.0500	10.0		93.1	70-130			
Total Xylenes	13.9	0.0250	15.0		92.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.19		8.00		89.9	70-130			

Matrix Spike (2423112-MS1) Source: E406051-03 Prepared: 06/06/24 Analyzed: 06/11/24

Benzene	4.54	0.0250	5.00	ND	90.7	54-133			
Ethylbenzene	4.51	0.0250	5.00	ND	90.2	61-133			
Toluene	4.57	0.0250	5.00	ND	91.5	61-130			
o-Xylene	4.49	0.0250	5.00	ND	89.8	63-131			
p,m-Xylene	9.13	0.0500	10.0	ND	91.3	63-131			
Total Xylenes	13.6	0.0250	15.0	ND	90.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			

Matrix Spike Dup (2423112-MSD1) Source: E406051-03 Prepared: 06/06/24 Analyzed: 06/11/24

Benzene	4.62	0.0250	5.00	ND	92.3	54-133	1.76	20	
Ethylbenzene	4.61	0.0250	5.00	ND	92.2	61-133	2.20	20	
Toluene	4.67	0.0250	5.00	ND	93.3	61-130	2.03	20	
o-Xylene	4.58	0.0250	5.00	ND	91.7	63-131	2.05	20	
p,m-Xylene	9.35	0.0500	10.0	ND	93.5	63-131	2.31	20	
Total Xylenes	13.9	0.0250	15.0	ND	92.9	63-131	2.23	20	
Surrogate: 4-Bromochlorobenzene-PID	7.20		8.00		90.0	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 12:22:21PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423112-BLK1) Prepared: 06/06/24 Analyzed: 06/10/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

LCS (2423112-BS2) Prepared: 06/06/24 Analyzed: 06/10/24

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		8.00		99.6	70-130			

Matrix Spike (2423112-MS2) Source: E406051-03 Prepared: 06/06/24 Analyzed: 06/11/24

Gasoline Range Organics (C6-C10)	50.8	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2423112-MSD2) Source: E406051-03 Prepared: 06/06/24 Analyzed: 06/11/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.6	70-130	2.96	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.92		8.00		99.0	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	6/12/2024 12:22:21PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2423146-BLK1) Prepared: 06/07/24 Analyzed: 06/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.8		50.0		106	50-200			

LCS (2423146-BS1) Prepared: 06/07/24 Analyzed: 06/10/24

Diesel Range Organics (C10-C28)	281	25.0	250		112	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			

Matrix Spike (2423146-MS1) Source: E406066-15 Prepared: 06/07/24 Analyzed: 06/10/24

Diesel Range Organics (C10-C28)	292	25.0	250	ND	117	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			

Matrix Spike Dup (2423146-MSD1) Source: E406066-15 Prepared: 06/07/24 Analyzed: 06/10/24

Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132	4.48	20	
Surrogate: n-Nonane	49.9		50.0		99.9	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  6/12/2024 12:22:21PM
---	--	---------------------------------------

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2423133-BLK1)					Prepared: 06/07/24 Analyzed: 06/07/24				
Chloride	ND	20.0							
LCS (2423133-BS1)					Prepared: 06/07/24 Analyzed: 06/07/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2423133-MS1)					Source: E406052-02		Prepared: 06/07/24 Analyzed: 06/07/24		
Chloride	440	20.0	250	148	117	80-120			
Matrix Spike Dup (2423133-MSD1)					Source: E406052-02		Prepared: 06/07/24 Analyzed: 06/07/24		
Chloride	447	20.0	250	148	120	80-120	1.60	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:	Toque State Com #502 H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	06/12/24 12:22

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.



## Page 1 of 1



## Envirotech Analytical Laboratory

Printed: 6/7/2024 12:20:17PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	06/06/24 09:00	Work Order ID:	E406052
Phone:	(972) 371-5200	Date Logged In:	06/05/24 20:46	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	06/12/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CouierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:

Ashley Giovengo



# envirotech

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## Analytical Report

Matador Resources, LLC.

Project Name: Toque State Com #502 H

Work Order: E407196

Job Number: 23003-0002

Received: 7/25/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/31/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 7/31/24

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



Project Name: Toque State Com #502 H  
Workorder: E407196  
Date Received: 7/25/2024 8:30:00AM

Ashley Giovengo,

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: Toque State Com #502 H.

The analytical test results summarized in this report with the Project Name: Toque State Com #502 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 07/31/24 09:23
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS02-1.5'	E407196-01A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS03-1.5'	E407196-02A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS04-1.5'	E407196-03A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
FS01-2.5'	E407196-04A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.
SW01-0'-1.5'	E407196-05A	Soil	07/23/24	07/25/24	Glass Jar, 2 oz.



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:23:26AM
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FS02-1.5'

E407196-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430092	
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: 4-Bromochlorobenzene-PID	93.7 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2430104	
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	191 %	50-200		07/25/24	07/26/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2430113	
Chloride	73.0	20.0	1	07/25/24	07/25/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
7/31/2024 9:23:26AM

FS03-1.5'

E407196-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430092	
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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.4 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2430104	
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	
<i>Surrogate: n-Nonane</i>	91.4 %	50-200		07/25/24	07/26/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2430113	
Chloride	46.6	20.0	1	07/25/24	07/25/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 7/31/2024 9:23:26AM
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FS04-1.5'

E407196-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430092	
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: 4-Bromochlorobenzene-PID	99.7 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2430104	
Diesel Range Organics (C10-C28)	29.5	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	92.2 %	50-200		07/25/24	07/26/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2430113	
Chloride	268	20.0	1	07/25/24	07/25/24	





## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
7/31/2024 9:23:26AM

FS01-2.5'

E407196-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430092	
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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430092	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	106 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2430104	
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	
<i>Surrogate: n-Nonane</i>	99.7 %	50-200		07/25/24	07/26/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: WF		Batch: 2430113	
Chloride	28.5	20.0	1	07/25/24	07/25/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
7/31/2024 9:23:26AM

SW01-0'-1.5'

E407196-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430092
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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.4 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430092
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/24/24	07/25/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	106 %	70-130		07/24/24	07/25/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2430104
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	
<i>Surrogate: n-Nonane</i>						
	83.8 %	50-200		07/25/24	07/26/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: WF		Batch: 2430113
Chloride	ND	20.0	1	07/25/24	07/25/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/31/2024 9:23:26AM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430092-BLK1)Prepared: 07/24/24 Analyzed: 07/25/24

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	7.36		8.00		92.0	70-130			

LCS (2430092-BS1)Prepared: 07/24/24 Analyzed: 07/25/24

Benzene	5.79	0.0250	5.00		116	70-130			
Ethylbenzene	5.42	0.0250	5.00		108	70-130			
Toluene	5.70	0.0250	5.00		114	70-130			
o-Xylene	5.53	0.0250	5.00		111	70-130			
p,m-Xylene	11.2	0.0500	10.0		112	70-130			
Total Xylenes	16.7	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.46		8.00		93.2	70-130			

Matrix Spike (2430092-MS1)Source: E407195-02Prepared: 07/24/24 Analyzed: 07/25/24

Benzene	4.65	0.0250	5.00	ND	92.9	54-133			
Ethylbenzene	4.35	0.0250	5.00	ND	87.1	61-133			
Toluene	4.58	0.0250	5.00	ND	91.6	61-130			
o-Xylene	4.48	0.0250	5.00	ND	89.7	63-131			
p,m-Xylene	9.00	0.0500	10.0	ND	90.0	63-131			
Total Xylenes	13.5	0.0250	15.0	ND	89.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			

Matrix Spike Dup (2430092-MSD1)Source: E407195-02Prepared: 07/24/24 Analyzed: 07/25/24

Benzene	4.72	0.0250	5.00	ND	94.3	54-133	1.49	20	
Ethylbenzene	4.43	0.0250	5.00	ND	88.6	61-133	1.77	20	
Toluene	4.65	0.0250	5.00	ND	92.9	61-130	1.47	20	
o-Xylene	4.55	0.0250	5.00	ND	91.1	63-131	1.53	20	
p,m-Xylene	9.15	0.0500	10.0	ND	91.5	63-131	1.73	20	
Total Xylenes	13.7	0.0250	15.0	ND	91.4	63-131	1.66	20	
Surrogate: 4-Bromochlorobenzene-PID	7.51		8.00		93.9	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/31/2024 9:23:26AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430092-BLK1) Prepared: 07/24/24 Analyzed: 07/25/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		8.00		107	70-130			

LCS (2430092-BS2) Prepared: 07/24/24 Analyzed: 07/25/24

Gasoline Range Organics (C6-C10)	50.1	20.0	50.0		100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130			

Matrix Spike (2430092-MS2) Source: E407195-02 Prepared: 07/24/24 Analyzed: 07/25/24

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0	ND	86.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.64		8.00		108	70-130			

Matrix Spike Dup (2430092-MSD2) Source: E407195-02 Prepared: 07/24/24 Analyzed: 07/25/24

Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.4	70-130	2.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.55		8.00		107	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	7/31/2024 9:23:26AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430104-BLK1)					Prepared: 07/25/24 Analyzed: 07/26/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.1		50.0		108	50-200			

LCS (2430104-BS1)					Prepared: 07/25/24 Analyzed: 07/26/24				
Diesel Range Organics (C10-C28)	237	25.0	250		94.8	38-132			
Surrogate: n-Nonane	52.2		50.0		104	50-200			

Matrix Spike (2430104-MS1)					Source: E407187-24		Prepared: 07/25/24 Analyzed: 07/26/24		
Diesel Range Organics (C10-C28)	236	25.0	250	ND	94.4	38-132			
Surrogate: n-Nonane	49.8		50.0		99.5	50-200			

Matrix Spike Dup (2430104-MSD1)					Source: E407187-24		Prepared: 07/25/24 Analyzed: 07/26/24		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.7	38-132	4.08	20	
Surrogate: n-Nonane	51.7		50.0		103	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  7/31/2024 9:23:26AM
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Anions by EPA 300.0/9056A

Analyst: WF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430113-BLK1)					Prepared: 07/25/24 Analyzed: 07/25/24				
Chloride	ND	20.0							
LCS (2430113-BS1)					Prepared: 07/25/24 Analyzed: 07/25/24				
Chloride	249	20.0	250		99.8	90-110			
Matrix Spike (2430113-MS1)					Source: E407196-03		Prepared: 07/25/24 Analyzed: 07/25/24		
Chloride	490	20.0	250	268	88.6	80-120			
Matrix Spike Dup (2430113-MSD1)					Source: E407196-03		Prepared: 07/25/24 Analyzed: 07/25/24		
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.





Definitions and Notes

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	07/31/24 09:23

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

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

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



## Chain of Custody

Page 1 of 1

Client Information				Invoice Information			Lab Use Only				TAT				State				
Client: Matador Production Company				Company: Ensolum LLC			Lab WO# E407196		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX	
Project: Toque State Com 502H				Address: 3122 National Parks Hwy											X				
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA		
															Compliance	Y	or	N	
															PWSID #				
															Remarks				
13:49	7/23/2024	Soil	1	FS02 - 1.5'		1						X							
15:29	7/23/2024	Soil	1	FS03 - 1.5'		2						X							
14:23	7/23/2024	Soil	1	FS04 - 1.5'		3						X							
15:23	7/23/2024	Soil	1	FS01 - 2.5'		4						X							
15:54	7/23/2024	Soil	1	SW01 - 0' - 1.5'		5						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: Brandon Deal																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.  Lab Use Only Received on ice: <input checked="" type="radio"/> Y <input type="radio"/> N  T1 _____ T2 _____ T3 _____  AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA _____							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



## Envirotech Analytical Laboratory

Printed: 7/25/2024 11:41:17AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	07/25/24 08:30	Work Order ID:	E407196
Phone:	(972) 371-5200	Date Logged In:	07/24/24 15:32	Logged In By:	Alexa Michaels
Email:	agiovngo@ensolum.com	Due Date:	07/31/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CouierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:

Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Toque State Com #502 H

Work Order: E407215

Job Number: 23003-0002

Received: 7/26/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/1/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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

Date Reported: 8/1/24

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



Project Name: Toque State Com #502 H  
Workorder: E407215  
Date Received: 7/26/2024 5:00:14AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/26/2024 5:00:14AM, under the Project Name: Toque State Com #502 H.

The analytical test results summarized in this report with the Project Name: Toque State Com #502 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 08/01/24 09:29
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS05 - 1.5'	E407215-01A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
FS10 - 1.6'	E407215-02A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
FS12 - 1.5'	E407215-03A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
FS13 - 1.5'	E407215-04A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
FS18 - 1.5'	E407215-05A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.
FS19 - 1.5'	E407215-06A	Soil	07/24/24	07/26/24	Glass Jar, 2 oz.





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/1/2024 9:29:54AM
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FS05 - 1.5'

E407215-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430128	
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: RKS		Batch: 2430128	
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.5 %	70-130		07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2430124	
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/30/24	
Surrogate: n-Nonane	104 %	50-200		07/26/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2430139	
Chloride	ND	20.0	1	07/26/24	07/26/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 9:29:54AM

## FS10 - 1.6'

## E407215-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.4 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430124
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		108 %	50-200	07/26/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430139
Chloride	40.7	20.0	1	07/26/24	07/26/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 9:29:54AM

## FS12 - 1.5'

## E407215-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.4 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430124
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		99.7 %	50-200	07/26/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430139
Chloride	29.9	20.0	1	07/26/24	07/26/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 9:29:54AM

## FS13 - 1.5'

## E407215-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430124
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		105 %	50-200	07/26/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430139
Chloride	78.2	20.0	1	07/26/24	07/26/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 9:29:54AM

FS18 - 1.5'

E407215-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430124
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		113 %	50-200	07/26/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430139
Chloride	ND	20.0	1	07/26/24	07/26/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 9:29:54AM

FS19 - 1.5'

E407215-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Benzene	ND	0.0250	1	07/26/24	07/29/24	
Ethylbenzene	ND	0.0250	1	07/26/24	07/29/24	
Toluene	ND	0.0250	1	07/26/24	07/29/24	
o-Xylene	ND	0.0250	1	07/26/24	07/29/24	
p,m-Xylene	ND	0.0500	1	07/26/24	07/29/24	
Total Xylenes	ND	0.0250	1	07/26/24	07/29/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2430128
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/26/24	07/29/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.5 %	70-130	07/26/24	07/29/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2430124
Diesel Range Organics (C10-C28)	ND	25.0	1	07/26/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/26/24	07/30/24	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	07/26/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2430139
Chloride	ND	20.0	1	07/26/24	07/26/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/1/2024 9:29:54AM

Volatile Organics by EPA 8021B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430128-BLK1) Prepared: 07/26/24 Analyzed: 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: 4-Bromochlorobenzene-PID 8.16 8.00 102 70-130

LCS (2430128-BS1) Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	5.08	0.0250	5.00		102	70-130			
Ethylbenzene	4.93	0.0250	5.00		98.6	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.95	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		99.9	70-130			

Surrogate: 4-Bromochlorobenzene-PID 8.21 8.00 103 70-130

Matrix Spike (2430128-MS1) Source: E407211-01 Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	5.24	0.0250	5.00	ND	105	54-133			
Ethylbenzene	5.09	0.0250	5.00	ND	102	61-133			
Toluene	5.20	0.0250	5.00	ND	104	61-130			
o-Xylene	5.10	0.0250	5.00	ND	102	63-131			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131			

Surrogate: 4-Bromochlorobenzene-PID 8.23 8.00 103 70-130

Matrix Spike Dup (2430128-MSD1) Source: E407211-01 Prepared: 07/26/24 Analyzed: 07/26/24

Benzene	5.27	0.0250	5.00	ND	105	54-133	0.533	20	
Ethylbenzene	5.11	0.0250	5.00	ND	102	61-133	0.405	20	
Toluene	5.22	0.0250	5.00	ND	104	61-130	0.423	20	
o-Xylene	5.12	0.0250	5.00	ND	102	63-131	0.369	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	0.515	20	
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131	0.467	20	

Surrogate: 4-Bromochlorobenzene-PID 8.21 8.00 103 70-130





QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/1/2024 9:29:54AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430128-BLK1) Prepared: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

LCS (2430128-BS2) Prepared: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	44.9	20.0	50.0		89.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2430128-MS2) Source: E407211-01 Prepared: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.62		8.00		95.2	70-130			

Matrix Spike Dup (2430128-MSD2) Source: E407211-01 Prepared: 07/26/24 Analyzed: 07/26/24

Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130	5.39	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.3	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/1/2024 9:29:54AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430124-BLK1) Prepared: 07/26/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	63.3		50.0		127	50-200			

LCS (2430124-BS1) Prepared: 07/26/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	252	25.0	250		101	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			

Matrix Spike (2430124-MS1) Source: E407215-01 Prepared: 07/26/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	269	25.0	250	ND	108	38-132			
Surrogate: n-Nonane	59.2		50.0		118	50-200			

Matrix Spike Dup (2430124-MSD1) Source: E407215-01 Prepared: 07/26/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	38-132	6.46	20	
Surrogate: n-Nonane	59.8		50.0		120	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  8/1/2024 9:29:54AM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2430139-BLK1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	ND	20.0							
LCS (2430139-BS1)					Prepared: 07/26/24 Analyzed: 07/26/24				
Chloride	250	20.0	250		99.8	90-110			
Matrix Spike (2430139-MS1)					Source: E407208-02		Prepared: 07/26/24 Analyzed: 07/26/24		
Chloride	715	20.0	250	538	70.8	80-120			M2
Matrix Spike Dup (2430139-MSD1)					Source: E407208-02		Prepared: 07/26/24 Analyzed: 07/26/24		
Chloride	744	20.0	250	538	82.3	80-120	3.93	20	

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



Definitions and Notes

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/01/24 09:29

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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

## Chain of Custody

Page 1 of 1

Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Matador Production Company				Company: Ensolum LLC		Lab WO# E407215		Job Number 23003-0002		1D	2D	3D	Std	NM	CO	UT	TX
Project: Toque State Com 502H				Address: 3122 National Parks Hwy										x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220													
Address: 3122 National Parks Hwy				Phone: 575-988-0055													
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com													
Phone: 575-988-0055				Miscellaneous:													
Email: agiovengo@ensolum.com																	
Sample Information										Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA
12:35	7/24/2024	Soil	1	FS05 - 1.5'		1						X					
12:40	7/24/2024	Soil	1	FS10 - 1.6'		2						X					
12:42	7/24/2024	Soil	1	FS12 - 1.5'		3						X					
12:43	7/24/2024	Soil	1	FS13 - 1.5'		4						X					
15:00	7/24/2024	Soil	1	FS18 - 1.5'		5						X					
15:00	7/24/2024	Soil	1	FS19 - 1.5'		6						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: Brandon Deal																	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Received by: (Signature)	
[Signature]		07/25/2024	10:00	Michelle Gonzales		7-25-24	1000	[Signature]		7-25-24	1845	[Signature]		7-26-24	0500	[Signature]	
Michelle Gonzales		7-25-24	1550	[Signature]		7-25-24	1845	[Signature]		7-26-24	0500	[Signature]		7-26-24	0500	[Signature]	
[Signature]		7-25-24	2400	[Signature]		7-26-24	0500	[Signature]		7-26-24	0500	[Signature]		7-26-24	0500	[Signature]	
[Signature]				[Signature]				[Signature]				[Signature]				[Signature]	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																	
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																	
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	



## Envirotech Analytical Laboratory

Printed: 7/26/2024 10:35:41AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client: Matador Resources, LLC.  
Phone: (972) 371-5200  
Email: agiovngo@ensolum.com

Date Received: 07/26/24 05:00  
Date Logged In: 07/25/24 16:19  
Due Date: 08/01/24 17:00 (4 day TAT)

Work Order ID: E407215  
Logged In By: Noe Soto

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.



Report to:  
Ashley Giovengo



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Matador Resources, LLC.

Project Name: Toque State Com #502 H

Work Order: E407225

Job Number: 23003-0002

Received: 7/29/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/1/24

5796 U.S. Hwy 64  
Farmington, NM 87401

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



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



Date Reported: 8/1/24

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



Project Name: Toque State Com #502 H  
Workorder: E407225  
Date Received: 7/29/2024 5:00:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 7/29/2024 5:00:00AM, under the Project Name: Toque State Com #502 H.

The analytical test results summarized in this report with the Project Name: Toque State Com #502 H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
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[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
08/01/24 11:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS06 -3'	E407225-01A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
FS07 - 3'	E407225-02A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
FS08 - 2'	E407225-03A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
FS09 - 2'	E407225-04A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
FS11 - 3'	E407225-05A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
FS14 -4-8.5'	E407225-06A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
FS15 - 3.5'	E407225-07A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
FS16 - 4'	E407225-08A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SW02 -0-3'	E407225-09A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SW03 -0-3'	E407225-10A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SW04 -0-3'	E407225-11A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SW05 -0-3'	E407225-12A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SW06 -0-8.5'	E407225-13A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SW07 -0-2.5'	E407225-14A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
SW08 -0-2.5'	E407225-15A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.
FS17 - 2.5'	E407225-16A	Soil	07/25/24	07/29/24	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

FS06 -3'

E407225-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/31/24	
Toluene	ND	0.0250	1	07/29/24	07/31/24	
o-Xylene	ND	0.0250	1	07/29/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	07/29/24	07/31/24	
Surrogate: Toluene-d8		99.2 %	70-130	07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		96.0 %	70-130	07/29/24	07/31/24	
Surrogate: Toluene-d8		99.2 %	70-130	07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/29/24	
Surrogate: n-Nonane		118 %	50-200	07/29/24	07/29/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	26.4	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

FS07 - 3'

E407225-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		97.0 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.7 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		97.0 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	154	25.0	1	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	65.5	50.0	1	07/29/24	07/29/24	
Surrogate: n-Nonane		115 %	50-200	07/29/24	07/29/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	53.5	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

FS08 - 2'

E407225-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		99.3 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		91.5 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		99.3 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/29/24	
Surrogate: n-Nonane		115 %	50-200	07/29/24	07/29/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	51.7	20.0	1	07/29/24	07/29/24	





## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

FS09 - 2'

E407225-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		96.0 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.9 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		96.0 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/29/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/29/24	
Surrogate: n-Nonane		108 %	50-200	07/29/24	07/29/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	84.5	20.0	1	07/29/24	07/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/1/2024 11:52:42AM
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FS11 - 3'

E407225-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		99.0 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		99.0 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		103 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	27.5	20.0	1	07/29/24	07/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/1/2024 11:52:42AM
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FS14 -4-8.5'  
E407225-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		99.3 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		98.7 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		99.3 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		106 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	253	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

FS15 - 3.5'

E407225-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		97.9 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		93.0 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		97.9 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		118 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	866	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

FS16 - 4'

E407225-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		100 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		104 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		97.5 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		100 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		111 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	1680	20.0	1	07/29/24	07/29/24	



Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/1/2024 11:52:42AM
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SW02 -0-3'  
E407225-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		07/29/24	07/30/24	
Surrogate: Toluene-d8	97.1 %	70-130		07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene	99.2 %	70-130		07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		07/29/24	07/30/24	
Surrogate: Toluene-d8	97.1 %	70-130		07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	33.4	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane	119 %	50-200		07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	25.5	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

SW03 -0-3'

E407225-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		97.0 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		97.0 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		94.0 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	ND	20.0	1	07/29/24	07/29/24	





Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/1/2024 11:52:42AM
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SW04 -0-3'  
E407225-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		98.3 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		103 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		95.9 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		98.3 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		116 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	ND	20.0	1	07/29/24	07/29/24	



## Sample Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported: 8/1/2024 11:52:42AM
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SW05 -0-3'

E407225-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/30/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/30/24	
Toluene	ND	0.0250	1	07/29/24	07/30/24	
o-Xylene	ND	0.0250	1	07/29/24	07/30/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/30/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		96.8 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/30/24	
Surrogate: Bromofluorobenzene		102 %	70-130	07/29/24	07/30/24	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	70-130	07/29/24	07/30/24	
Surrogate: Toluene-d8		96.8 %	70-130	07/29/24	07/30/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		113 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	89.7	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

SW06 -0-8.5

E407225-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/31/24	
Toluene	ND	0.0250	1	07/29/24	07/31/24	
o-Xylene	ND	0.0250	1	07/29/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/29/24	07/31/24	
Surrogate: Toluene-d8		98.2 %	70-130	07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	70-130	07/29/24	07/31/24	
Surrogate: Toluene-d8		98.2 %	70-130	07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		111 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	ND	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

SW07 -0-2.5'

E407225-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/31/24	
Toluene	ND	0.0250	1	07/29/24	07/31/24	
o-Xylene	ND	0.0250	1	07/29/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	07/29/24	07/31/24	
Surrogate: Toluene-d8		98.6 %	70-130	07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene		106 %	70-130	07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	07/29/24	07/31/24	
Surrogate: Toluene-d8		98.6 %	70-130	07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		117 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	71.3	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

SW08 -0-2.5'

E407225-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/31/24	
Toluene	ND	0.0250	1	07/29/24	07/31/24	
o-Xylene	ND	0.0250	1	07/29/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		07/29/24	07/31/24	
Surrogate: Toluene-d8	98.5 %	70-130		07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene	99.5 %	70-130		07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		07/29/24	07/31/24	
Surrogate: Toluene-d8	98.5 %	70-130		07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	ND	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	ND	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane	112 %	50-200		07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	86.3	20.0	1	07/29/24	07/29/24	



## Sample Data

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

Project Name: Toque State Com #502 H  
Project Number: 23003-0002  
Project Manager: Ashley Giovengo

**Reported:**  
8/1/2024 11:52:42AM

FS17 - 2.5'

E407225-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Benzene	ND	0.0250	1	07/29/24	07/31/24	
Ethylbenzene	ND	0.0250	1	07/29/24	07/31/24	
Toluene	ND	0.0250	1	07/29/24	07/31/24	
o-Xylene	ND	0.0250	1	07/29/24	07/31/24	
p,m-Xylene	ND	0.0500	1	07/29/24	07/31/24	
Total Xylenes	ND	0.0250	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	07/29/24	07/31/24	
Surrogate: Toluene-d8		98.5 %	70-130	07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2431012
Gasoline Range Organics (C6-C10)	ND	20.0	1	07/29/24	07/31/24	
Surrogate: Bromofluorobenzene		101 %	70-130	07/29/24	07/31/24	
Surrogate: 1,2-Dichloroethane-d4		94.2 %	70-130	07/29/24	07/31/24	
Surrogate: Toluene-d8		98.5 %	70-130	07/29/24	07/31/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2431003
Diesel Range Organics (C10-C28)	397	25.0	1	07/29/24	07/30/24	
Oil Range Organics (C28-C36)	170	50.0	1	07/29/24	07/30/24	
Surrogate: n-Nonane		110 %	50-200	07/29/24	07/30/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2431022
Chloride	748	20.0	1	07/29/24	07/29/24	



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/1/2024 11:52:42AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2431012-BLK1) Prepared: 07/29/24 Analyzed: 07/31/24

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	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

LCS (2431012-BS1) Prepared: 07/29/24 Analyzed: 07/31/24

Benzene	2.31	0.0250	2.50		92.4	70-130			
Ethylbenzene	2.40	0.0250	2.50		95.9	70-130			
Toluene	2.22	0.0250	2.50		88.8	70-130			
o-Xylene	2.41	0.0250	2.50		96.5	70-130			
p,m-Xylene	4.80	0.0500	5.00		95.9	70-130			
Total Xylenes	7.21	0.0250	7.50		96.1	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			

Matrix Spike (2431012-MS1) Source: E407225-01 Prepared: 07/29/24 Analyzed: 07/31/24

Benzene	2.29	0.0250	2.50	ND	91.6	48-131			
Ethylbenzene	2.38	0.0250	2.50	ND	95.1	45-135			
Toluene	2.21	0.0250	2.50	ND	88.5	48-130			
o-Xylene	2.39	0.0250	2.50	ND	95.5	43-135			
p,m-Xylene	4.76	0.0500	5.00	ND	95.2	43-135			
Total Xylenes	7.15	0.0250	7.50	ND	95.3	43-135			
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.490		0.500		98.0	70-130			
Surrogate: Toluene-d8	0.497		0.500		99.3	70-130			

Matrix Spike Dup (2431012-MSD1) Source: E407225-01 Prepared: 07/29/24 Analyzed: 07/31/24

Benzene	2.39	0.0250	2.50	ND	95.6	48-131	4.30	23	
Ethylbenzene	2.49	0.0250	2.50	ND	99.5	45-135	4.50	27	
Toluene	2.30	0.0250	2.50	ND	92.2	48-130	4.10	24	
o-Xylene	2.56	0.0250	2.50	ND	102	43-135	6.82	27	
p,m-Xylene	5.08	0.0500	5.00	ND	102	43-135	6.62	27	
Total Xylenes	7.64	0.0250	7.50	ND	102	43-135	6.69	27	
Surrogate: Bromofluorobenzene	0.515		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.491		0.500		98.2	70-130			





QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/1/2024 11:52:42AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431012-BLK1) Prepared: 07/29/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.506		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

LCS (2431012-BS2) Prepared: 07/29/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: Bromofluorobenzene	0.511		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.1	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

Matrix Spike (2431012-MS2) Source: E407225-01 Prepared: 07/29/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.9	70-130			
Surrogate: Bromofluorobenzene	0.527		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike Dup (2431012-MSD2) Source: E407225-01 Prepared: 07/29/24 Analyzed: 07/31/24

Gasoline Range Organics (C6-C10)	48.5	20.0	50.0	ND	97.1	70-130	4.40	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.481		0.500		96.1	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			



QC Summary Data

Matador Resources, LLC.	Project Name:	Toque State Com #502 H	Reported:
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	
Dallas TX, 75240	Project Manager:	Ashley Giovengo	8/1/2024 11:52:42AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431003-BLK1) Prepared: 07/29/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.6		50.0		113	50-200			

LCS (2431003-BS1) Prepared: 07/29/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	297	25.0	250		119	38-132			
Surrogate: n-Nonane	58.3		50.0		117	50-200			

Matrix Spike (2431003-MS1) Source: E407225-07 Prepared: 07/29/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	325	25.0	250	ND	130	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike Dup (2431003-MSD1) Source: E407225-07 Prepared: 07/29/24 Analyzed: 07/29/24

Diesel Range Organics (C10-C28)	287	25.0	250	ND	115	38-132	12.1	20	
Surrogate: n-Nonane	57.3		50.0		115	50-200			



QC Summary Data

Matador Resources, LLC. 5400 LBJ Freeway, Suite 1500 Dallas TX, 75240	Project Name: Toque State Com #502 H Project Number: 23003-0002 Project Manager: Ashley Giovengo	Reported:  8/1/2024 11:52:42AM
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Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2431022-BLK1)					Prepared: 07/29/24 Analyzed: 07/29/24				
Chloride	ND	20.0							
LCS (2431022-BS1)					Prepared: 07/29/24 Analyzed: 07/29/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2431022-MS1)					Source: E407225-05		Prepared: 07/29/24 Analyzed: 07/29/24		
Chloride	280	20.0	250	27.5	101	80-120			
Matrix Spike Dup (2431022-MSD1)					Source: E407225-05		Prepared: 07/29/24 Analyzed: 07/29/24		
Chloride	285	20.0	250	27.5	103	80-120	1.89	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:	Toque State Com #502 H	
5400 LBJ Freeway, Suite 1500	Project Number:	23003-0002	Reported:
Dallas TX, 75240	Project Manager:	Ashley Giovengo	08/01/24 11:52

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

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

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



## Chain of Custody

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Matador Production Company				Company: Ensolum LLC		Lab WO#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: Toque State Com #502H				Address: 3122 National Parks Hwy		E407225	23003-0002				x	x						
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220														
Address: 3122 National Parks Hwy				Phone: 575-988-0055														
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com														
Phone: 575-988-0055				Miscellaneous:														
Email: agiovengo@ensolum.com																		
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Remarks			
12:06	7/25/2024	S	1	FS06 - 3'		1						X						
12:04	7/25/2024	S	1	FS07 - 3'		2						X						
9:17	7/25/2024	S	1	FS08 - 2'		3						X						
9:15	7/25/2024	S	1	FS09 - 2'		4						X						
12:08	7/25/2024	S	1	FS11 - 3'		5						X						
15:18	7/25/2024	S	1	FS14 - 4-8.5'		6						X						
15:28	7/25/2024	S	1	FS15 - 3.5'		7						X						
14:30	7/25/2024	S	1	FS16 - 4'		8						X						
12:42	7/25/2024	S	1	SW02 - 0-3'		9						X						
12:44	7/25/2024	S	1	SW03 - 0-3'		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																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Cole Burton		7/26/24	7:30	Michelle Gonzales		7-26-24	6730											
Michelle Gonzales		7-26-24	1530	Andrew J. Hall		7-26-24	1730	Lab Use Only										
Andrew J. Hall		7-26-24	2345	Kathleen R. Hall		7-29-24	0500	Received on ice: Y / N										
								T1 T2 T3										
								AVG Temp °C 4										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																		
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																		
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		





## Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Matador Production Company				Company: Ensolum LLC				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: Toque State Com #502H				Address: 3122 National Parks Hwy				E 4107225		23003-0002					x	x			
Project Manager: Ashley Giovengo				City, State, Zip: Carlsbad NM, 88220															
Address: 3122 National Parks Hwy				Phone: 575-988-0055															
City, State, Zip: Carlsbad NM, 88220				Email: agiovengo@ensolum.com															
Phone: 575-988-0055				Miscellaneous:															
Email: agiovengo@ensolum.com																			
Sample Information												Analysis and Method				EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals	SDWA	CWA	RCRA	Compliance	PWSID #
12:46	7/25/2024	S	1	SW04 - 0-3'		11						X						Y	
12:48	7/25/2024	S	1	SW05 - 0-3'		12						X						Y	
12:51	7/25/2024	S	1	SW06 - 0-8.5'		13						X						Y	
12:56	7/25/2024	S	1	SW07 - 0-2.5'		14						X						Y	
12:57	7/25/2024	S	1	SW08 - 0-2.5'		15						X						Y	
11:51	7/25/2024	S	1	FS17 - 2.5'		16						X						Y	
	<del>7/25/2024</del>	<del>S</del>	<del>1</del>																
	<del>7/25/2024</del>	<del>S</del>	<del>1</del>																
	<del>7/25/2024</del>	<del>S</del>	<del>1</del>																
	<del>7/25/2024</del>	<del>S</del>	<del>1</del>																
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																			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C 4											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			



## Envirotech Analytical Laboratory

Printed: 7/29/2024 2:32:02PM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Matador Resources, LLC.	Date Received:	07/29/24 05:00	Work Order ID:	E407225
Phone:	(972) 371-5200	Date Logged In:	07/26/24 16:42	Logged In By:	Noe Soto
Email:	agiovngo@ensolum.com	Due Date:	08/02/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client InstructionComments/Resolution

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

Date



envirotech Inc.





## APPENDIX E

### Email Correspondence

---

**From:** [SLO Spills](#)  
**To:** [Ashley Giovengo](#); [SLO Spills](#); [David, Deon W.](#); [clinton.talley@matadorresources.com](#); [Jason Touchet](#)  
**Cc:** [Cole Burton](#); [Chad Hamilton](#); [Israel Estrella](#)  
**Subject:** RE: Notice of Release - Toque State Com #502H - Incident Number nAPP2410854853  
**Date:** Tuesday, April 23, 2024 3:23:55 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Thank you for the additional information.

---

**From:** Ashley Giovengo <agiovengo@ensolum.com>  
**Sent:** Tuesday, April 23, 2024 8:50 AM  
**To:** Griffin, Becky R. <bgriffin@slo.state.nm.us>; SLO Spills <spills@slo.state.nm.us>; David, Deon W. <ddavid@slo.state.nm.us>; [clinton.talley@matadorresources.com](#); [Jason Touchet](#) <jason.touchet@matadorresources.com>  
**Cc:** Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>; Israel Estrella <iestrella@ensolum.com>  
**Subject:** [EXTERNAL] Notice of Release - Toque State Com #502H - Incident Number nAPP2410854853

Good Morning,

Please see the attached spill notification form and photos for the minor release the Toque State Com #502H. Please let me know if you have any questions.

Thanks,



**Ashley Giovengo**

Senior Scientist

575-988-0055

**Ensolum, LLC**

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“Your authenticity is your superpower.” – Unknown

**From:** [Velez, Nelson, EMNRD](#)  
**To:** [Ashley Giovengo](#)  
**Cc:** [clinton.talley@matadorresources.com](#); [jason.touchet@matadorresources.com](#); [Cole Burton](#); [Chad Hamilton](#); [Bratcher, Michael, EMNRD](#)  
**Subject:** Re: [EXTERNAL] Extension Request - Toque State Tank Battery - Incident Number nAPP2410854853  
**Date:** Thursday, July 11, 2024 12:40:37 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[Outlook-todycmch.png](#)

---

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

Good afternoon Ashley,

Your 90-day time extension request is approved. Remediation Due date has been updated to October 15, 2024.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

**Nelson Velez** • Environmental Specialist - Adv  
Environmental Bureau | EMNRD - Oil Conservation Division  
1000 Rio Brazos Road | Aztec, NM 87410  
(505) 469-6146 | [nelson.velez@emnrd.nm.gov](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oecd>



---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Thursday, July 11, 2024 8:55 AM  
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Extension Request - Toque State Tank Battery - Incident Number nAPP2410854853

---

**From:** Ashley Giovengo <agiovengo@ensolum.com>  
**Sent:** Thursday, July 11, 2024 6:46 AM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; clinton.talley@matadorresources.com; Jason Touchet <jason.touchet@matadorresources.com>  
**Cc:** Cole Burton <cburton@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>  
**Subject:** [EXTERNAL] Extension Request - Toque State Tank Battery - Incident Number nAPP2410854853

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 for the current deadline of July 15, 2024, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at the Toque State Tanke Battery (Incident Number nAPP2410854853). The release occurred on April 16, 2024, and lateral and vertical delineation sampling to the strictest criteria per NMOCD Table 1 has been completed at the Site. Matador has met with subcontractors and the area is currently being marked for a one-call. Matador plans to begin remediation and confirmation soil sampling activities at the site on 07/17/2024. Matador intends to submit a remediation work plan or closure report upon receiving final laboratory analytical data from confirmation sampling activities. Matador respectfully requests a 90-day extension until October 13, 2024. Please let me know if you have any further questions regarding this site.

Thanks,



**Ashley Giovengo**

Senior Scientist

575-988-0055

**Ensolum, LLC**

**in f X**

"Your authenticity is your superpower." – Unknown

**District I**  
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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 334649

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 334649
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

<b>Location of Release Source</b> <i>Please answer all the questions in this group.</i>	
Site Name	Toque State Tank Battery
Date Release Discovered	04/16/2024
Surface Owner	State

<b>Incident Details</b> <i>Please answer all the questions in this group.</i>	
Incident Type	Oil 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

<b>Nature and Volume of Release</b> <i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 23 BBL   Recovered: 7 BBL   Lost: 16 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2  
  
Action 334649

QUESTIONS (continued)

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 334649
	Action Type: [NOTIFY] Notification Of Release (NOR)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
Per Paragraph 4 of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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**Oil Conservation Division**  
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**Santa Fe, NM 87505**

ACKNOWLEDGMENTS  
  
Action 334649

ACKNOWLEDGMENTS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 334649
	Action Type: [NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

<input checked="" type="checkbox"/>	I acknowledge that I am authorized to submit notification of a release on behalf of my operator.
<input checked="" type="checkbox"/>	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
<input checked="" type="checkbox"/>	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that the acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment.
<input checked="" type="checkbox"/>	I acknowledge the fact that, in addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.



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CONDITIONS  
  
Action 334649

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 334649
	Action Type: [NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created By	Condition	Condition Date
c_talley	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/17/2024

Impacted Soil	
Saturated Soil (inches)	
	1
	3468.9
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
	0.0
barrels recovered (if known)	
	7
Soil type	
pad caliche	
Spill type	
produced water	
Barrel estimate in soil	
	10.3
Barrel estimate (standing fluids/ recovered+in soil)	
	17.3

need to populate or select

Impacted Soil	
Saturated Soil (inches)	
	18
	15.61
Standing fluids	
inches of standing fluid	
	0
bbl estimate of standing fluids	
	0.0
barrels recovered (if known)	
	0
Soil type	
pad caliche	
Spill type	
produced water	
Barrel estimate in soil	
	0.8
Barrel estimate (standing fluids/ recovered+in soil)	
	0.8

need to populate or select

Impacted Soil	
Saturated Soil (inches)	
	1
	220.51
Standing fluids	
inches of standing fluid	
	1
bbl estimate of standing fluids	
	4.4
barrels recovered (if known)	
	0
Soil type	
pad caliche	
Spill type	
produced water	
Barrel estimate in soil	
	0.7
Barrel estimate (standing fluids/ recovered+in soil)	
	5.0

need to populate or select

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QUESTIONS  
  
Action 335630

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 335630
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410854853
Incident Name	NAPP2410854853 TOQUE STATE TANK BATTERY @ 30-025-44785
Incident Type	Oil Release
Incident Status	Initial C-141 Received
Incident Well	[30-025-44785] TOQUE STATE COM #502H
Incident Facility	[fAPP2203328435] TOQUE STATE FACILITY TANK BATTERY

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Toque State Tank Battery
Date Release Discovered	04/16/2024
Surface Owner	State

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil 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	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 23 BBL   Recovered: 7 BBL   Lost: 16 BBL.
Produced Water Released (bbls) Details	Not answered.
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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**Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 335630

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 335630
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**QUESTIONS**

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

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

I hereby agree and sign off to the above statement	Name: Clint Talley Title: Assistant Foreman Email: clinton.talley@matadorresources.com Date: 04/21/2024
--	--

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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 3

Action 335630

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 335630
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

**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)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

**Remediation Plan**

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	No
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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**District III**  
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**District IV**  
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State of New Mexico  
Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 335630

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 335630
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	4/22/2024

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QUESTIONS

Action 364944

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364944
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2410854853
Incident Name	NAPP2410854853 TOQUE STATE TANK BATTERY @ 30-025-44785
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44785] TOQUE STATE COM #502H
Incident Facility	[fAPP2203328435] TOQUE STATE FACILITY TANK BATTERY

**Location of Release Source**

Site Name	TOQUE STATE TANK BATTERY
Date Release Discovered	04/16/2024
Surface Owner	State

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

What is the sampling surface area in square feet	3,705
What is the estimated number of samples that will be gathered	22
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	32.5076443, -103.6146623

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CONDITIONS  
  
Action 364944

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364944
	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.	7/17/2024

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QUESTIONS  
  
Action 364949

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364949
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410854853
Incident Name	NAPP2410854853 TOQUE STATE TANK BATTERY @ 30-025-44785
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44785] TOQUE STATE COM #502H
Incident Facility	[fAPP2203328435] TOQUE STATE FACILITY TANK BATTERY

Location of Release Source	
Site Name	TOQUE STATE TANK BATTERY
Date Release Discovered	04/16/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,705
What is the estimated number of samples that will be gathered	22
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	32.5076443, -103.6146623

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CONDITIONS  
  
Action 364949

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364949
	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.	7/17/2024

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QUESTIONS

Action 364951

**QUESTIONS**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364951
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

**QUESTIONS**

Prerequisites	
Incident ID (n#)	nAPP2410854853
Incident Name	NAPP2410854853 TOQUE STATE TANK BATTERY @ 30-025-44785
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44785] TOQUE STATE COM #502H
Incident Facility	[fAPP2203328435] TOQUE STATE FACILITY TANK BATTERY

**Location of Release Source**

Site Name	TOQUE STATE TANK BATTERY
Date Release Discovered	04/16/2024
Surface Owner	State

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

What is the sampling surface area in square feet	3,705
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/24/2024
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	32.5076443, -103.6146623

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CONDITIONS  
  
Action 364951

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 364951
	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.	7/17/2024



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QUESTIONS  
  
Action 367513

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 367513
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410854853
Incident Name	NAPP2410854853 TOQUE STATE TANK BATTERY @ 30-025-44785
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-44785] TOQUE STATE COM #502H
Incident Facility	[fAPP2203328435] TOQUE STATE FACILITY TANK BATTERY

Location of Release Source	
Site Name	TOQUE STATE TANK BATTERY
Date Release Discovered	04/16/2024
Surface Owner	State

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	3,705
What is the estimated number of samples that will be gathered	22
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/25/2024
Time sampling will commence	09:00 AM
Warning: Notification can not be less than two business days prior to conducting final sampling.	
Please provide any information necessary for observers to contact samplers	Excavation took one Extra Day
Please provide any information necessary for navigation to sampling site	32.5076443, -103.6146623

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CONDITIONS  
  
Action 367513

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 367513
	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.	7/25/2024

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

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QUESTIONS

Action 405317

QUESTIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405317
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2410854853
Incident Name	NAPP2410854853 TOQUE STATE TANK BATTERY @ 30-025-44785
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-44785] TOQUE STATE COM #502H
Incident Facility	[fAPP2203328435] TOQUE STATE FACILITY TANK BATTERY

Location of Release Source

Please answer all the questions in this group.

Site Name	TOQUE STATE TANK BATTERY
Date Release Discovered	04/16/2024
Surface Owner	State

Incident Details

Please answer all the questions in this group.

Incident Type	Oil 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	Cause: Equipment Failure   Flow Line - Production   Crude Oil   Released: 23 BBL   Recovered: 7 BBL   Lost: 16 BBL.
Produced Water Released (bbls) Details	Not answered.
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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QUESTIONS, Page 2

Action 405317

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405317
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.

*With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.*

**Initial Response**

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

*Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.*

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 11/20/2024
--	--

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QUESTIONS, Page 3

Action 405317

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405317
	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	Direct Measurement
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
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	Greater than 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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	8810
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	16060
GRO+DRO (EPA SW-846 Method 8015M)	11920
BTEX (EPA SW-846 Method 8021B or 8260B)	15
Benzene (EPA SW-846 Method 8021B or 8260B)	3

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	07/23/2024
On what date will (or did) the final sampling or liner inspection occur	07/25/2024
On what date will (or was) the remediation complete(d)	07/25/2024
What is the estimated surface area (in square feet) that will be reclaimed	400
What is the estimated volume (in cubic yards) that will be reclaimed	15
What is the estimated surface area (in square feet) that will be remediated	3880
What is the estimated volume (in cubic yards) that will be remediated	617

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

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QUESTIONS, Page 4

Action 405317

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405317
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	<b>Yes</b>
Which OCD approved facility will be used for <b>off-site</b> disposal	<i>Not answered.</i>
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	<i>Not answered.</i>
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	<i>Not answered.</i>
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	<b>Yes</b>
What is the name of the NMED facility	Lea Land
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	<i>Not answered.</i>
(In Situ) Soil Vapor Extraction	<i>Not answered.</i>
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	<i>Not answered.</i>
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	<i>Not answered.</i>
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	<i>Not answered.</i>
Ground Water Abatement pursuant to 19.15.30 NMAC	<i>Not answered.</i>
OTHER (Non-listed remedial process)	<i>Not answered.</i>
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 11/20/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 5  
  
Action 405317

QUESTIONS (continued)

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  405317
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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**Santa Fe, NM 87505**

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Action 405317

**QUESTIONS (continued)**

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405317
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	367513
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/25/2024
What was the (estimated) number of samples that were to be gathered	22
What was the sampling surface area in square feet	3705

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	3880
What was the total volume (cubic yards) remediated	617
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	400
What was the total volume (in cubic yards) reclaimed	15
Summarize any additional remediation activities not included by answers (above)	N/A

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

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

I hereby agree and sign off to the above statement	Name: Jason Touchet Title: EHS Field Rep Email: <a href="mailto:jason.touchet@matadorresources.com">jason.touchet@matadorresources.com</a> Date: 11/20/2024
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Action 405317

QUESTIONS (continued)

Operator:  MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID:  228937
	Action Number:  405317
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 405317

CONDITIONS

Operator: MATADOR PRODUCTION COMPANY One Lincoln Centre Dallas, TX 75240	OGRID: 228937
	Action Number: 405317
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation has met 19.15.29 NMAC requirements. Soil impacts exceeding the reclamation standards have been left in place and are required to meet 19.15.29.13D (1) NMAC once the site is no longer reasonably needed for production or subsequent drilling ops.	3/10/2025